

Les 240 "CUBE SOMA"

Les pièces du Cube Soma (Pietr Hein) ci-dessous peuvent être assemblées en un cube d'arête 3.
Il existe 240 façons différentes de le faire.

Quelques observations :

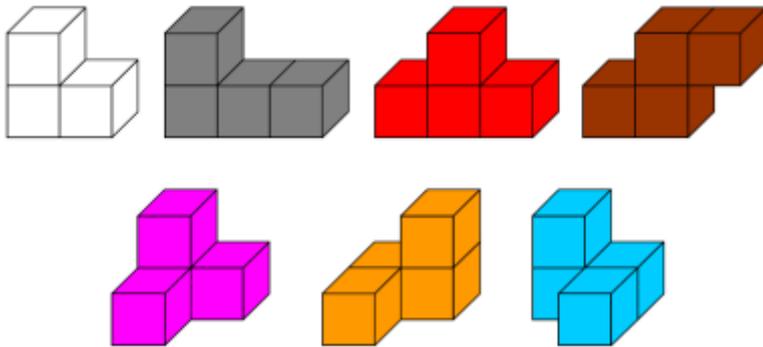
Le "T" rouge, est toujours sur une arête du cube, jamais au milieu d'une face ni au centre du cube.

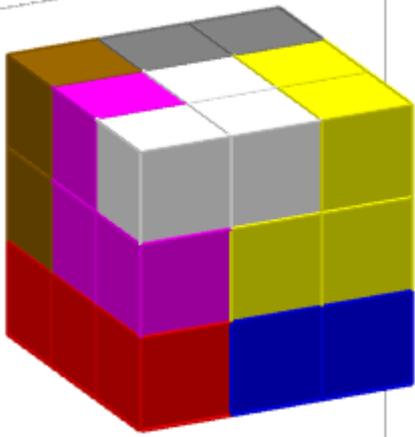
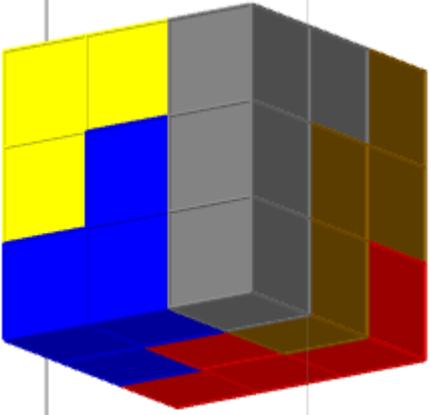
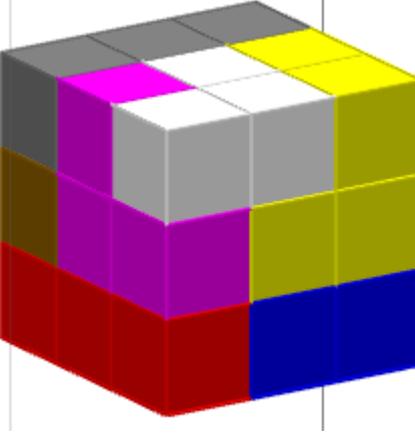
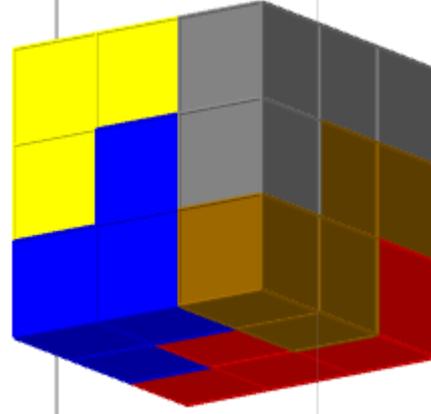
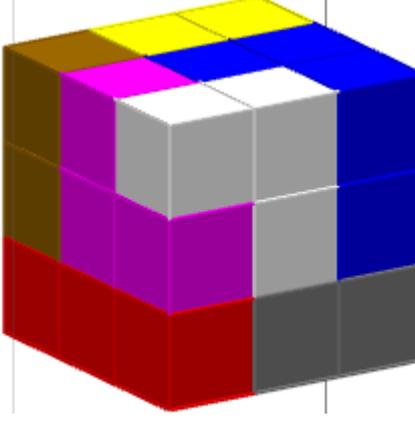
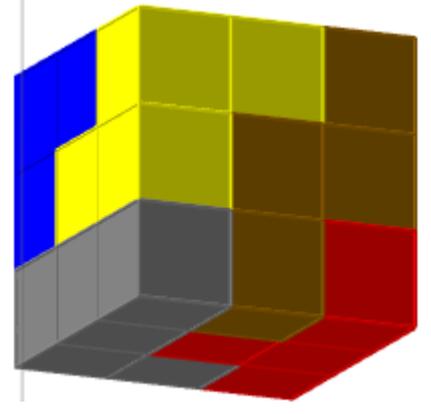
Le "Y" rose a un cube à la base de ses trois "branches", ce cube-base se situe soit au sommet du cube (203 fois), soit au milieu d'une face (solutions 1 à 10 et 157 à 183 soit 37 cas différents)

Le petit "L" blanc a un cube de base (en contact avec les 2 autres cubes blancs) qui se situe :

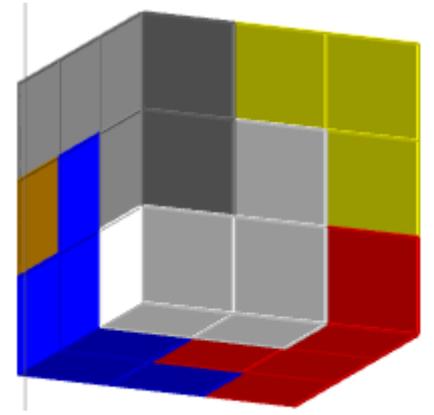
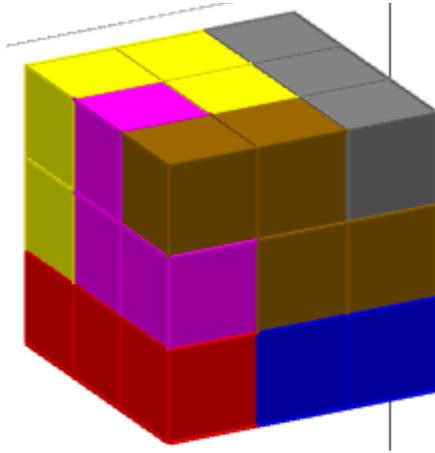
- au milieu d'une arête (223 cas)
- au centre du cube (17 cas : n°18,19,62,63,73,101,102,115,119,184,193,196,210,211,226,234,238)

De ces observations on pourra sans en tirer des éléments de parité si on colorie le cube en alternance de 2 couleurs.

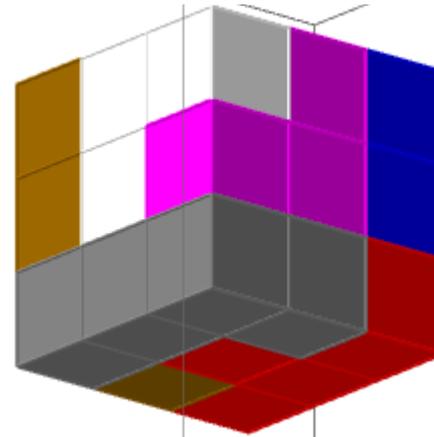
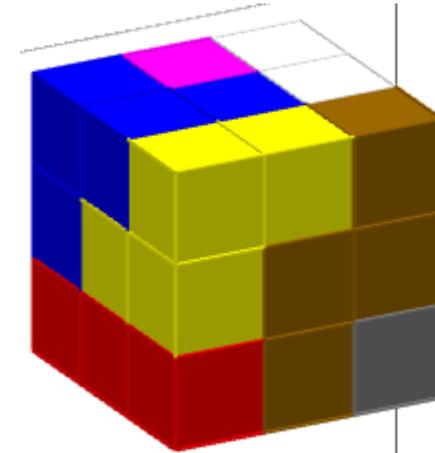


Solutions	Vue de face-dessus	Vue de dos-dessous
1		
2		
3		

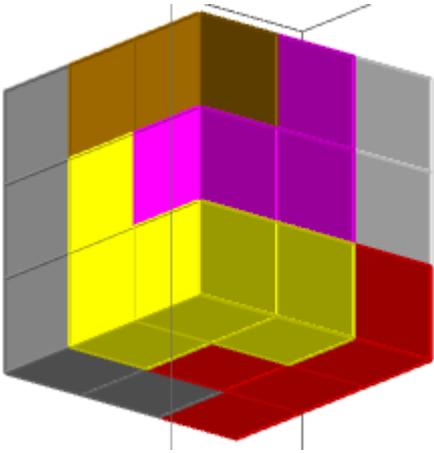
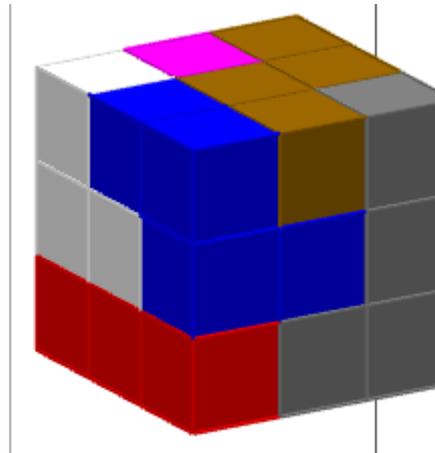
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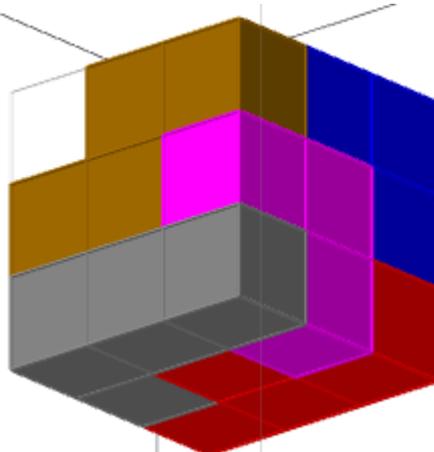
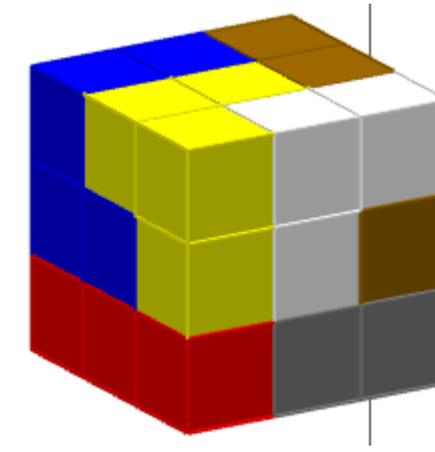
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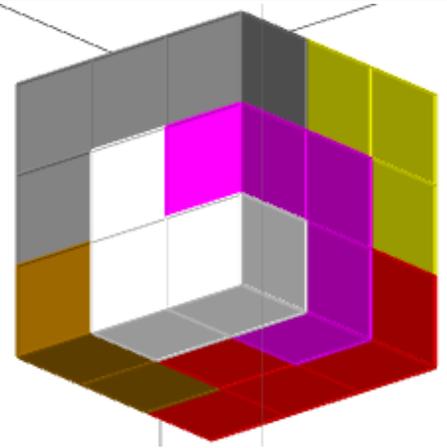
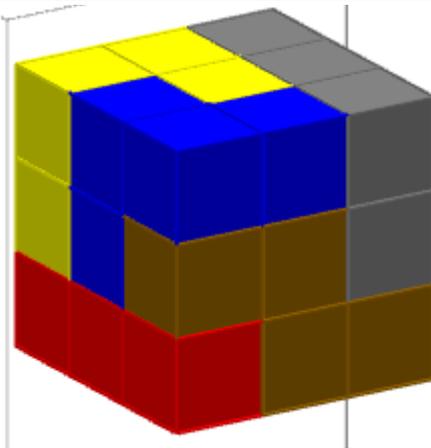
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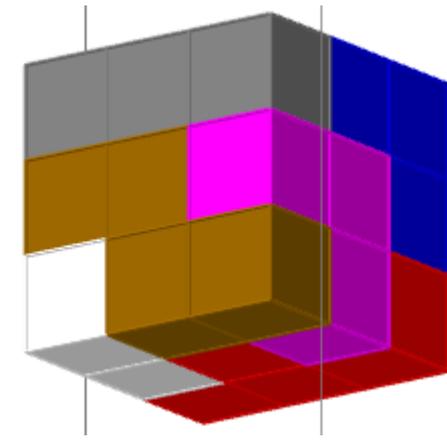
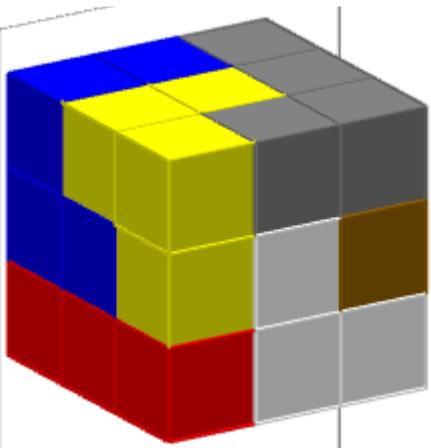
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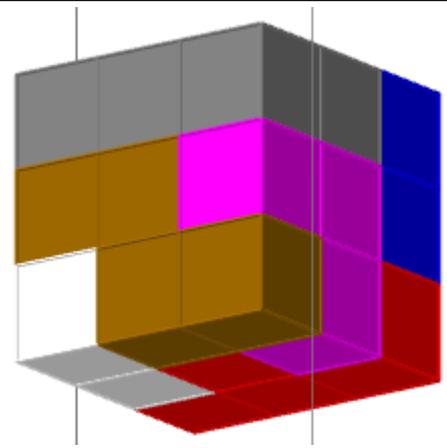
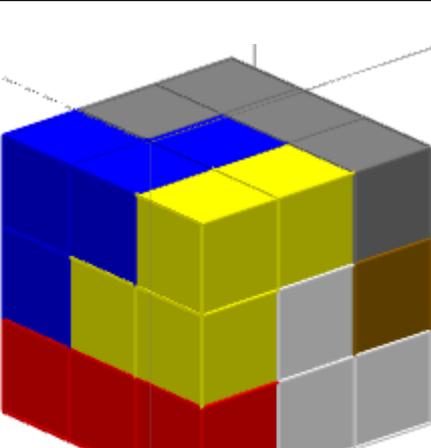
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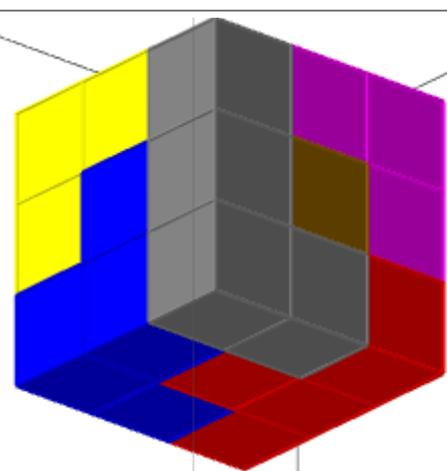
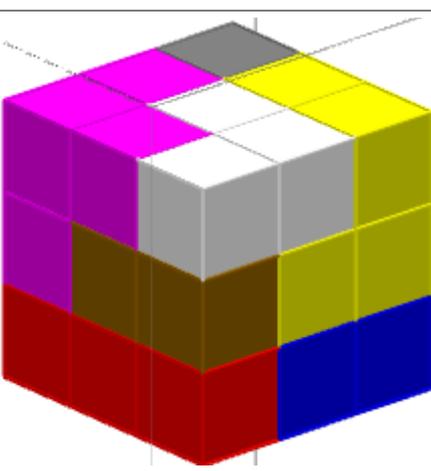
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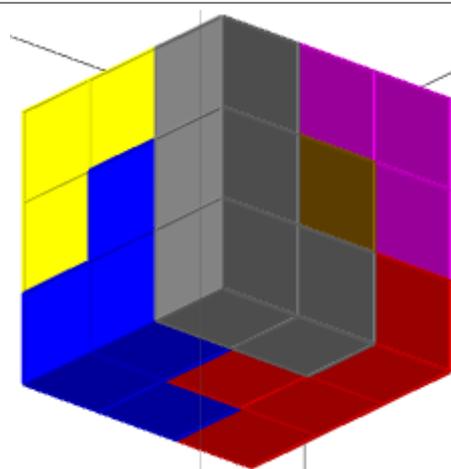
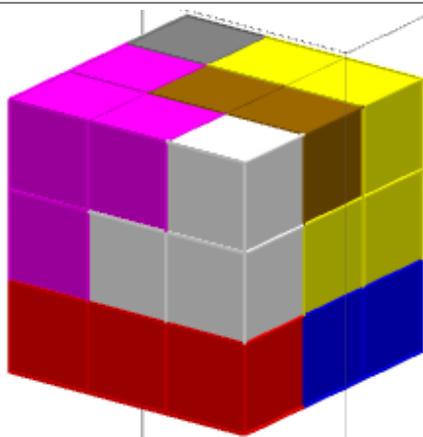
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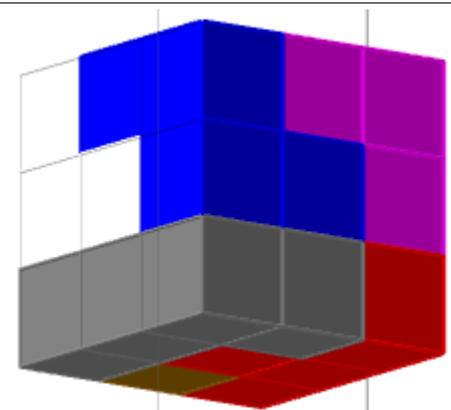
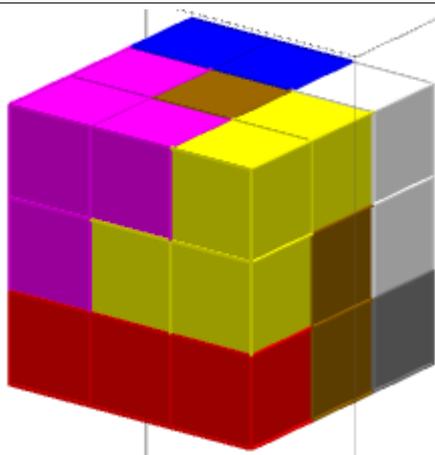
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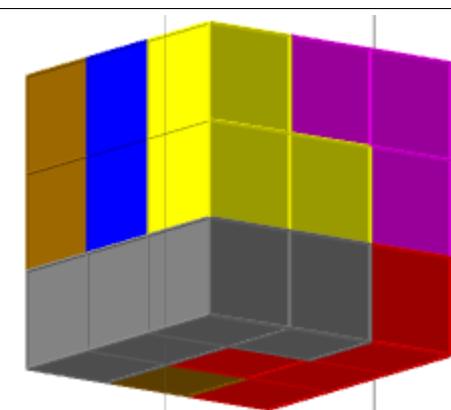
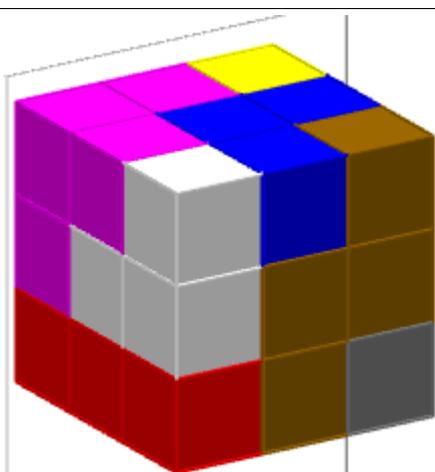
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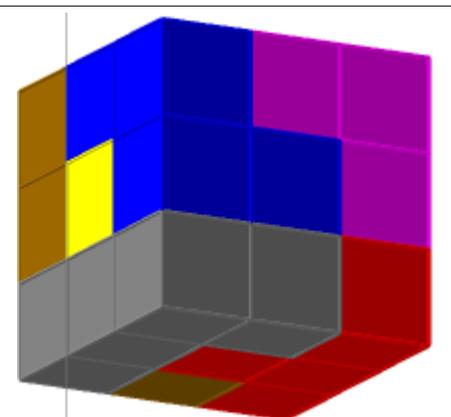
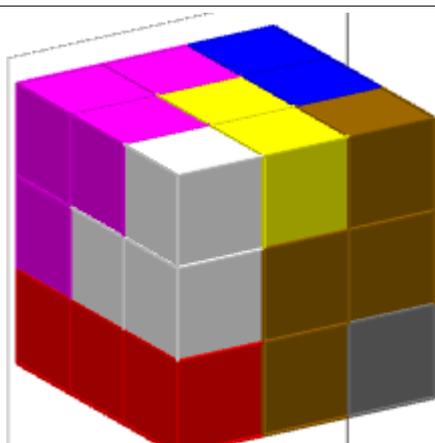
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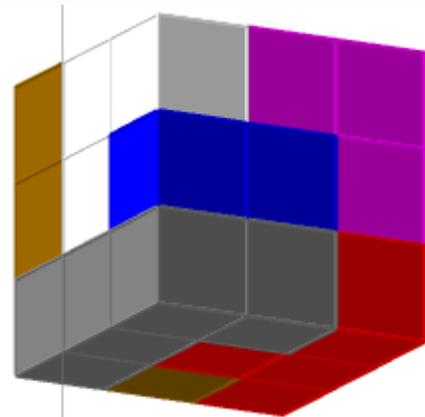
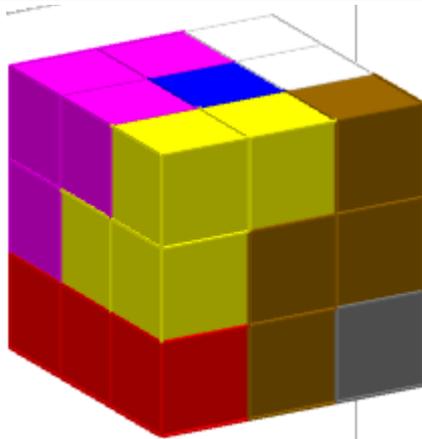
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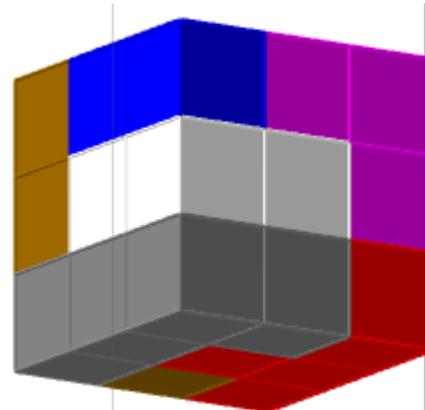
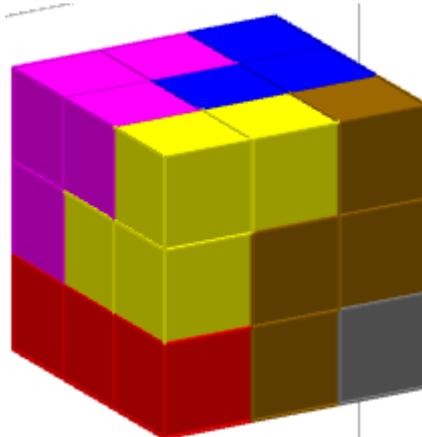
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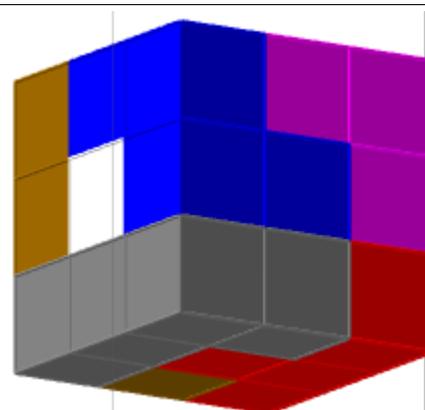
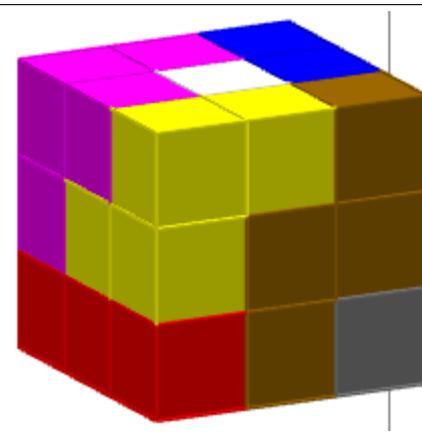
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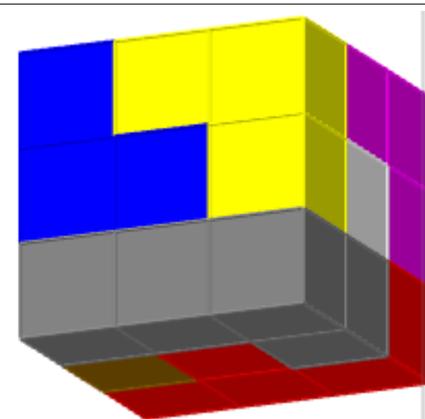
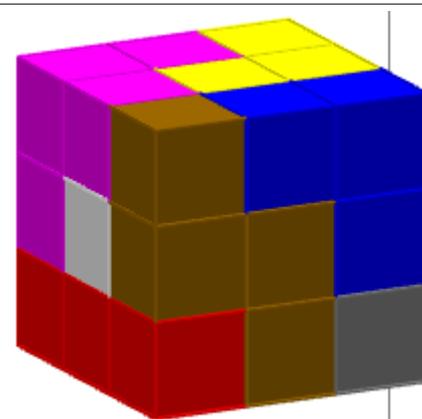
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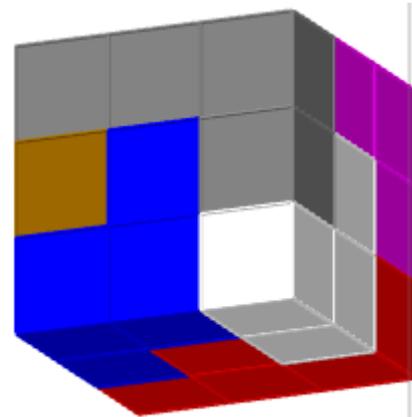
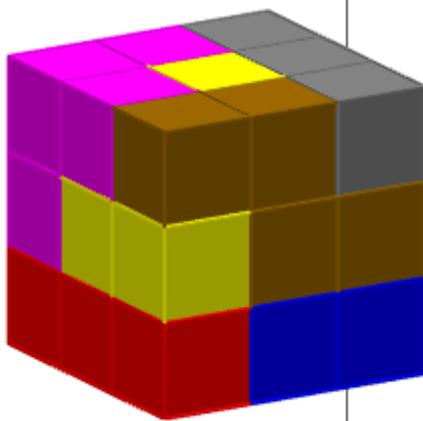
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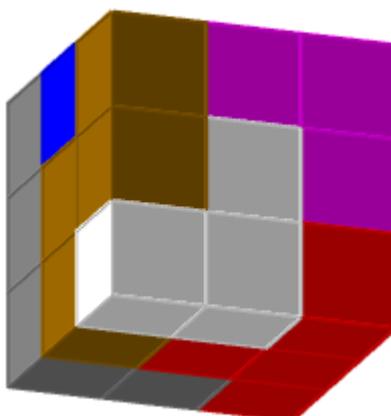
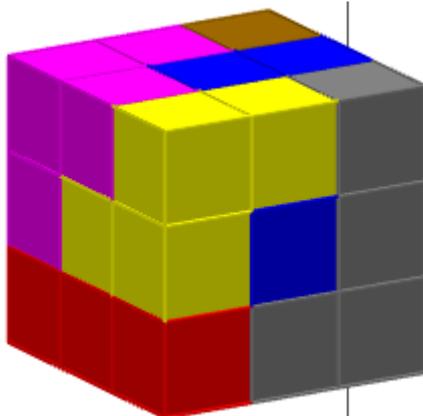
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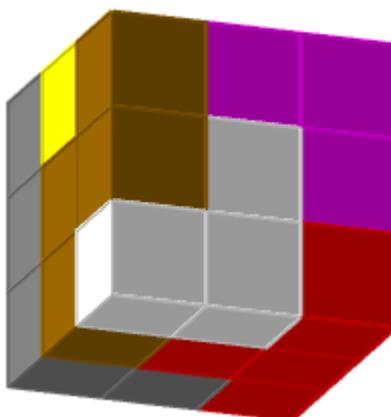
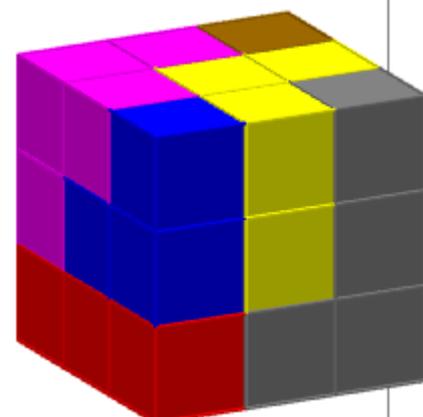
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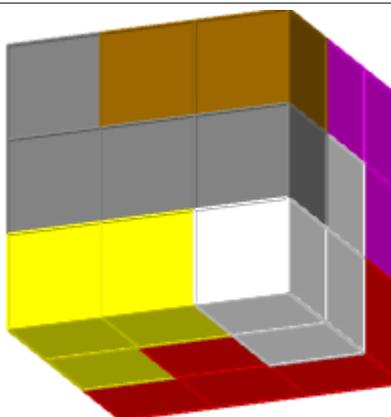
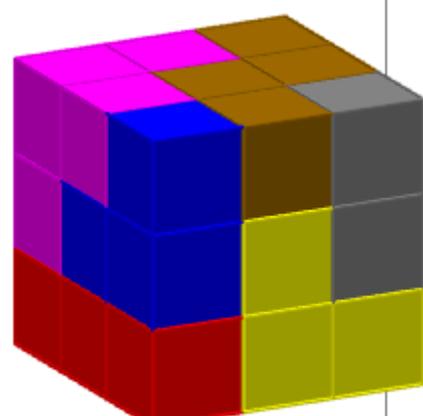
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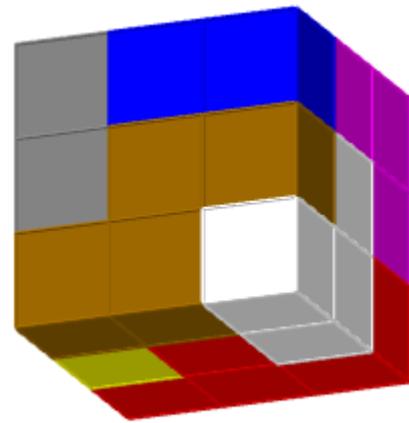
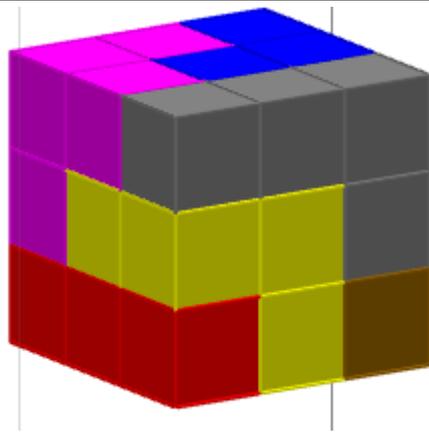
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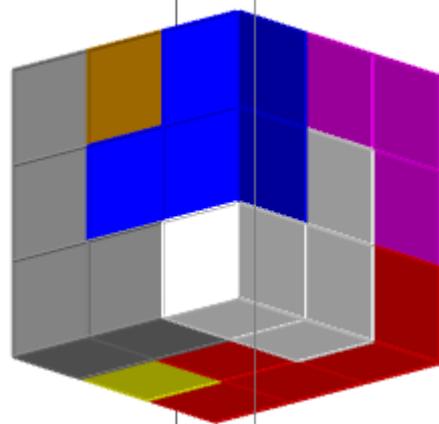
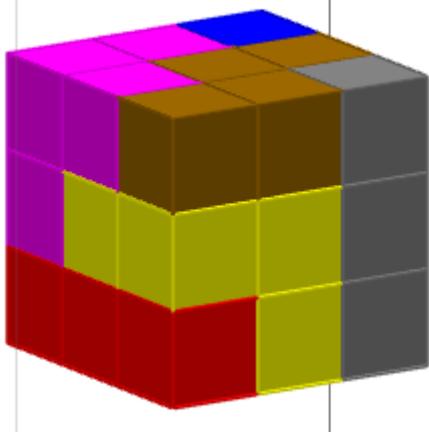
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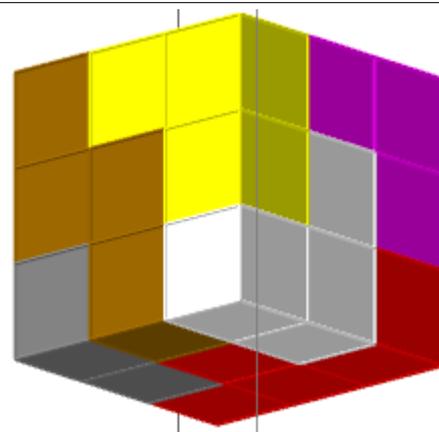
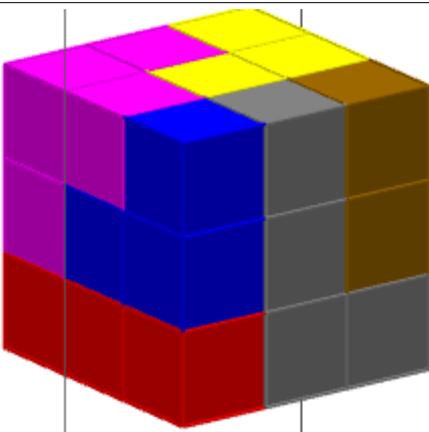
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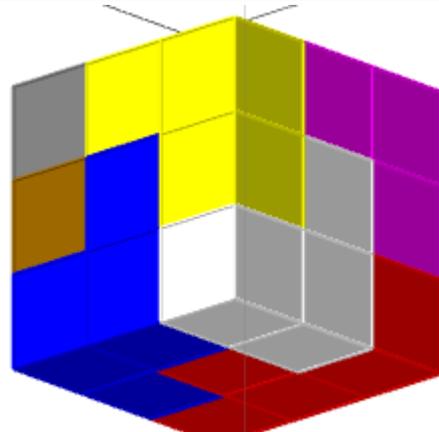
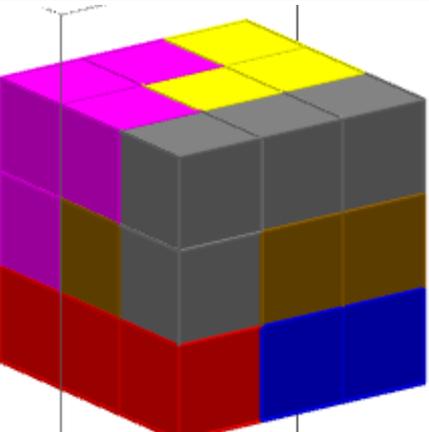
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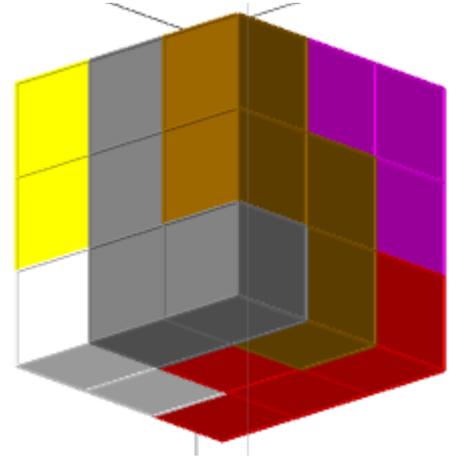
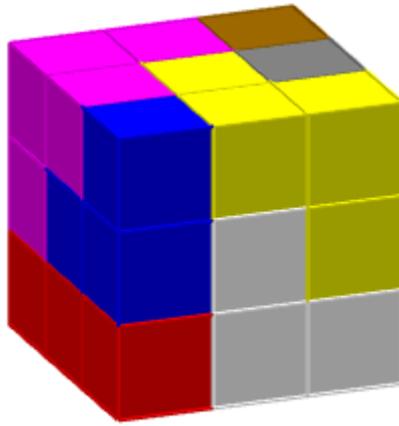
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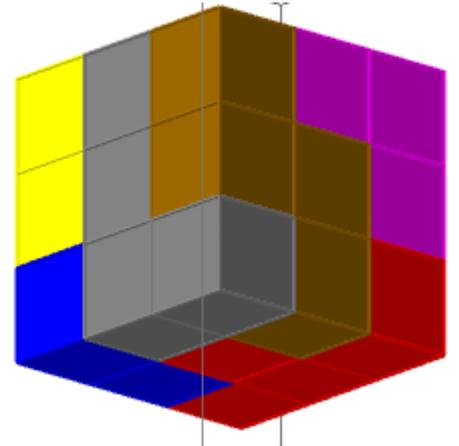
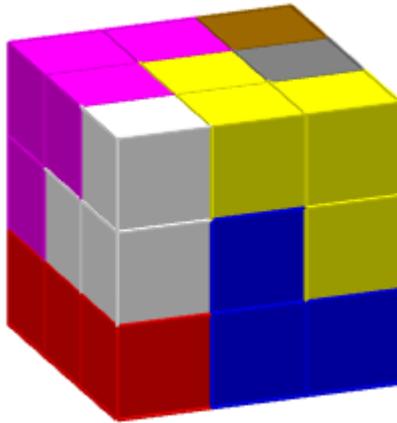
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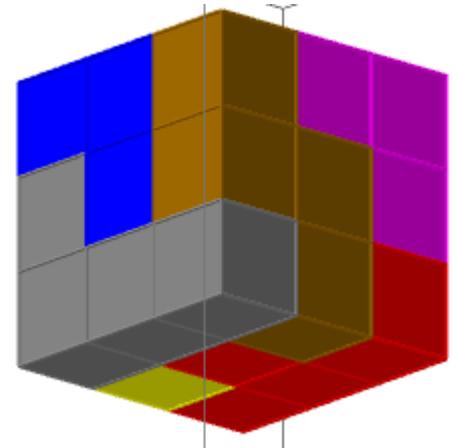
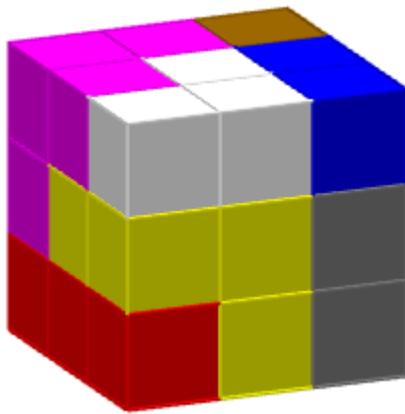
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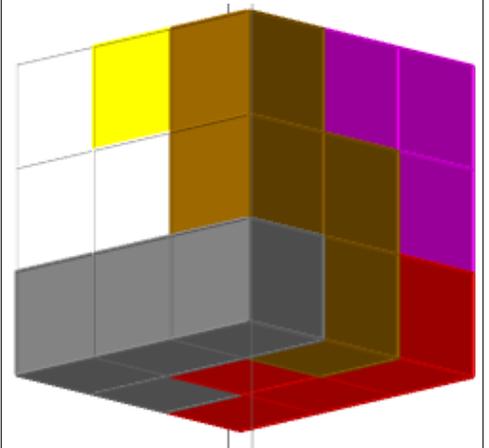
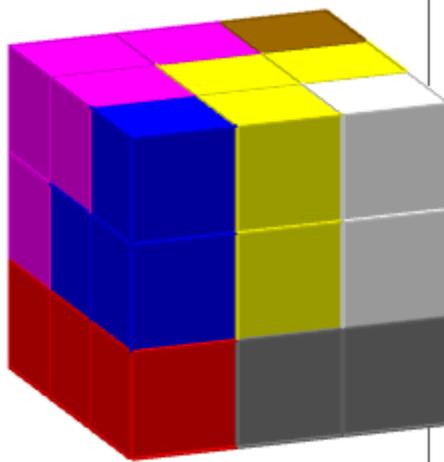


Solutions

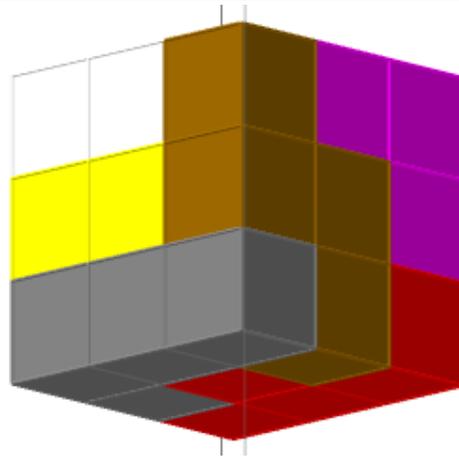
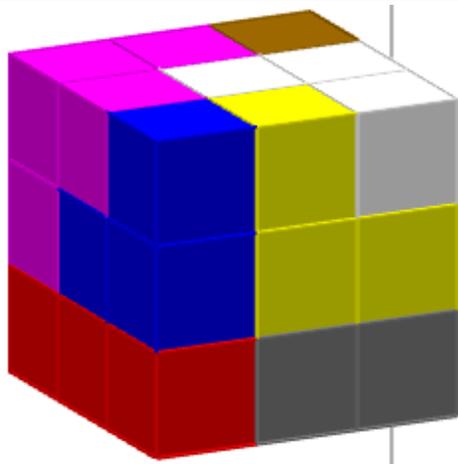
Vue de face-dessus

Vue de dos-dessous

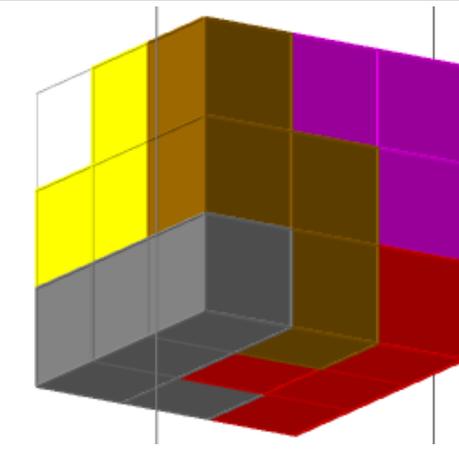
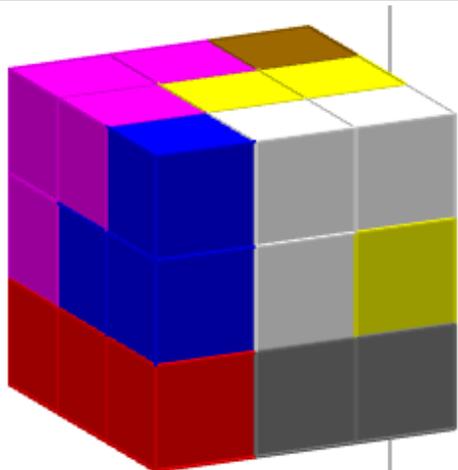
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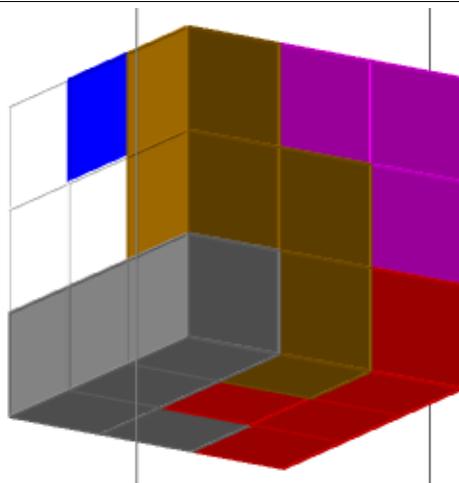
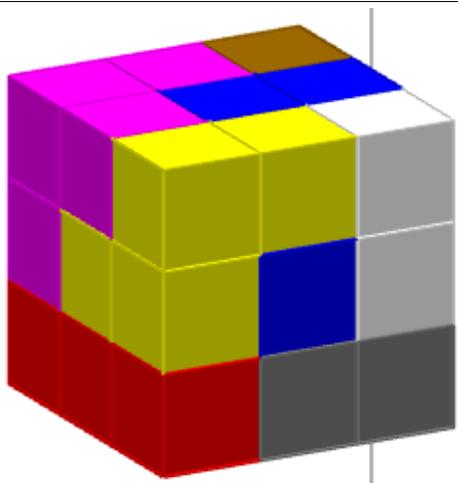
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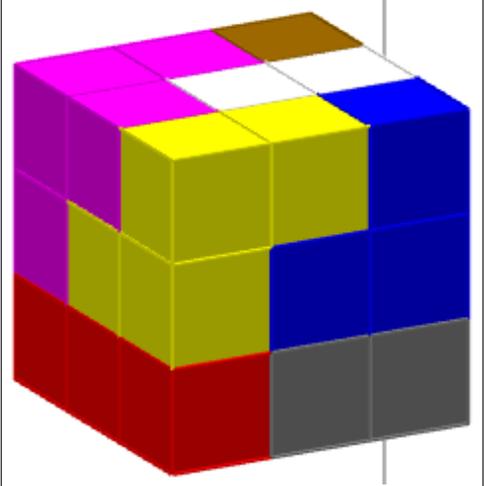
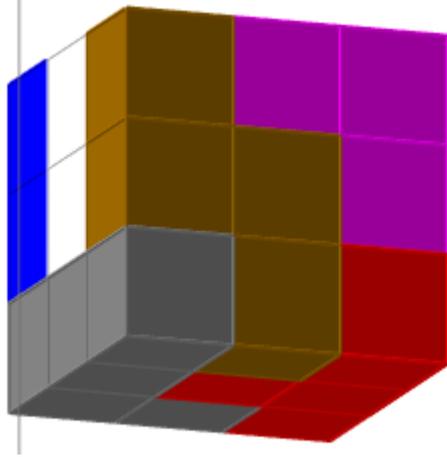
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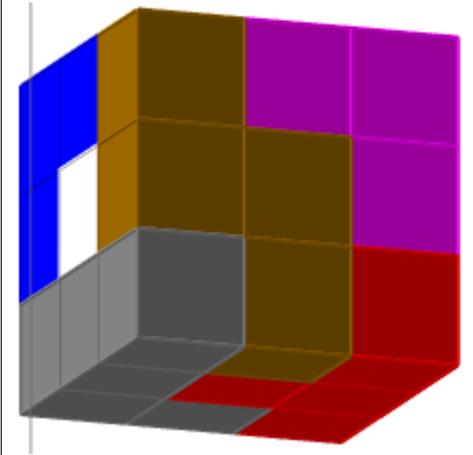
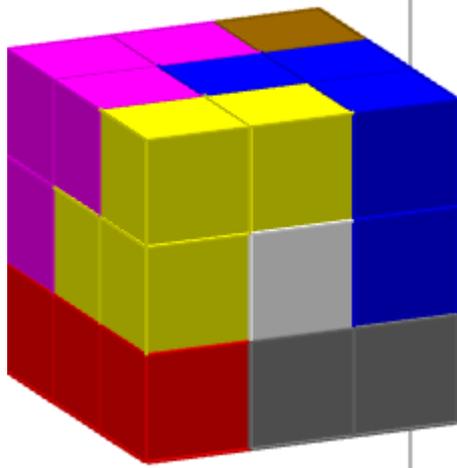
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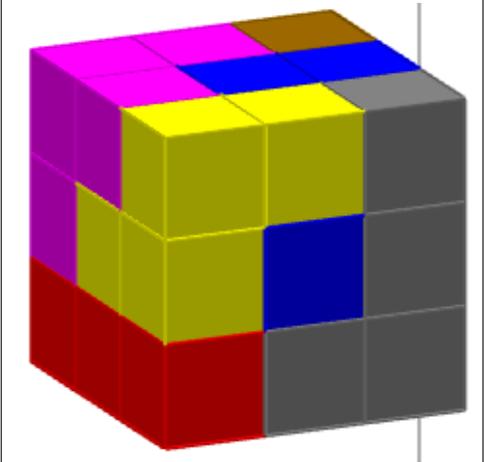
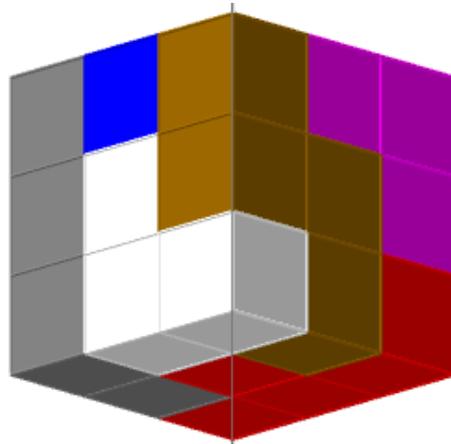
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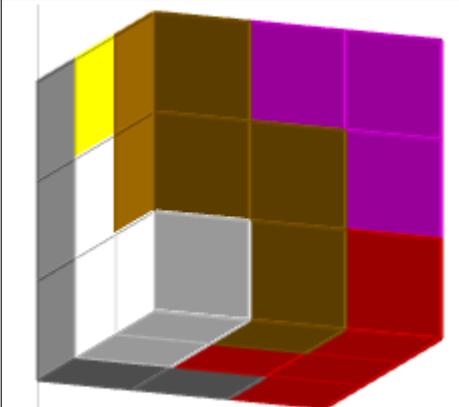
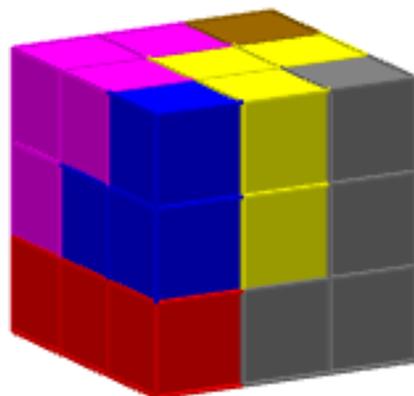
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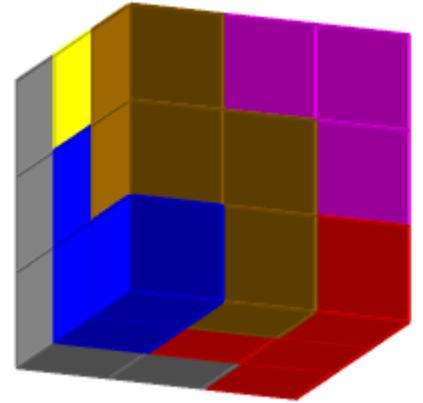
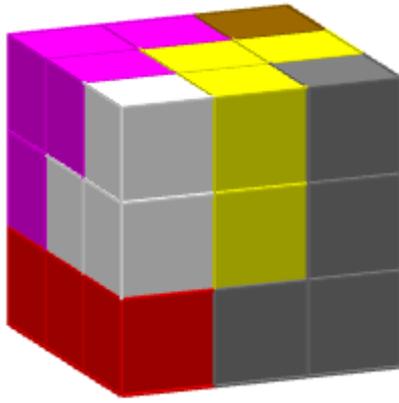
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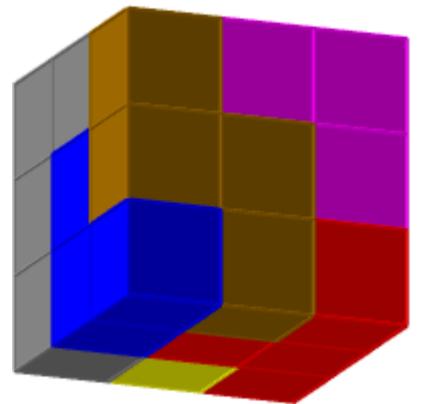
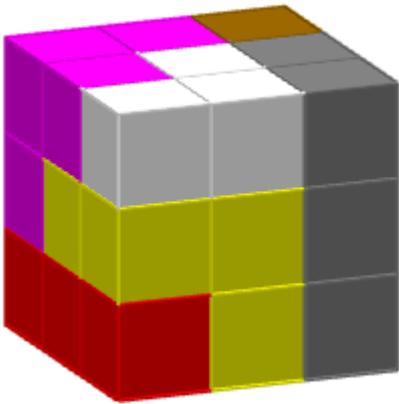
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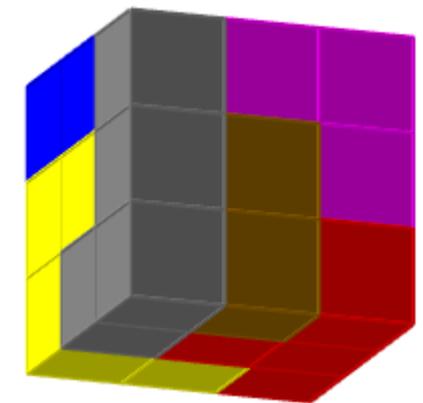
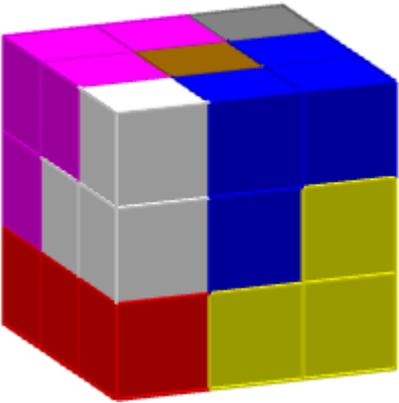
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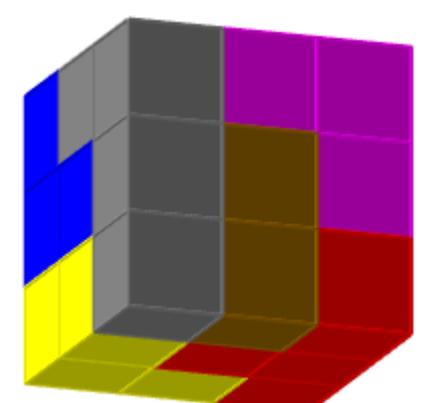
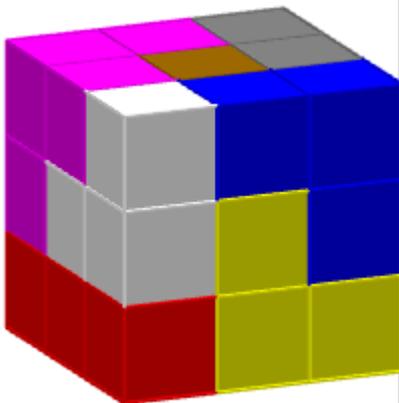
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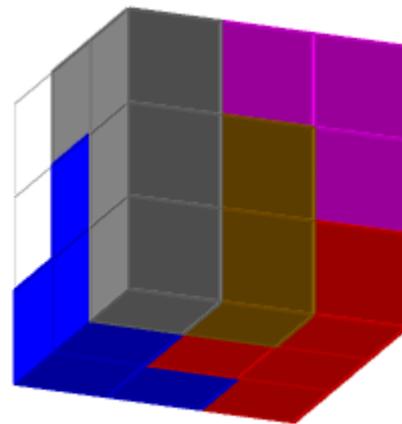
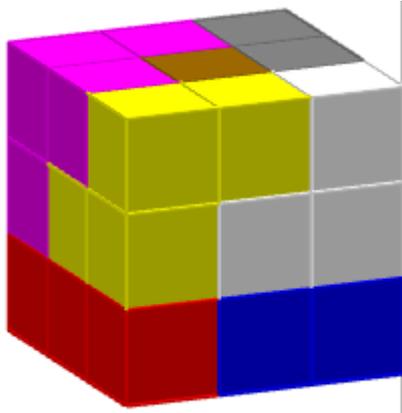
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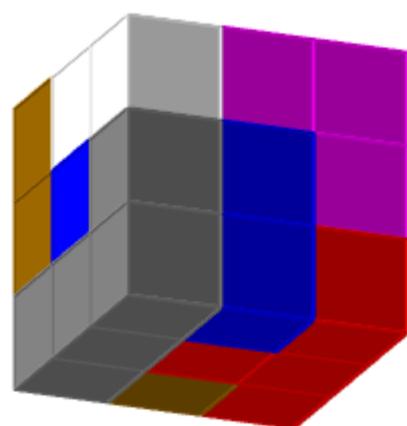
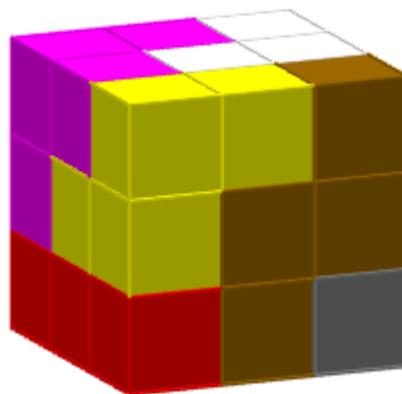
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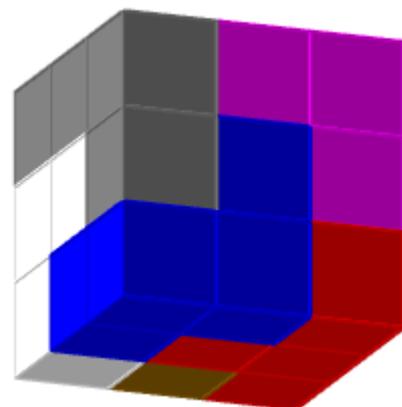
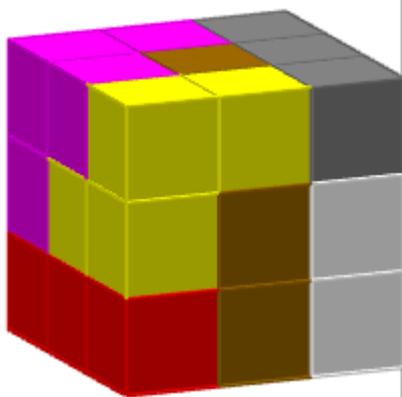
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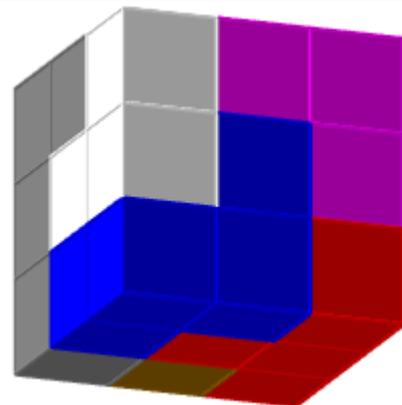
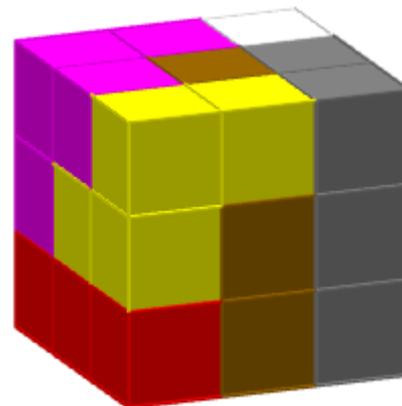
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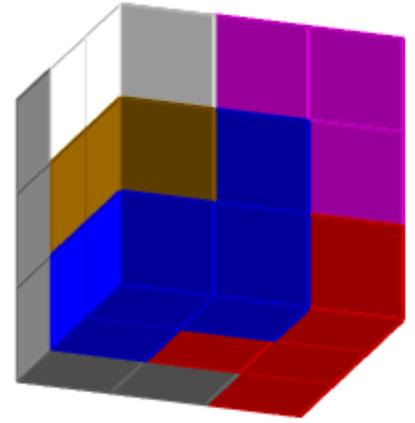
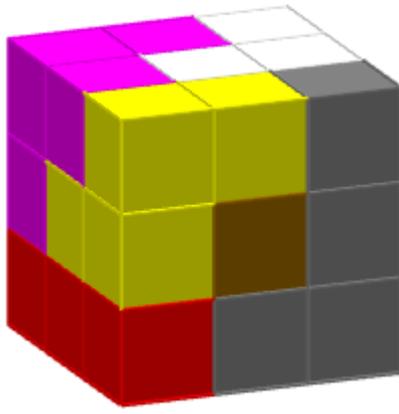
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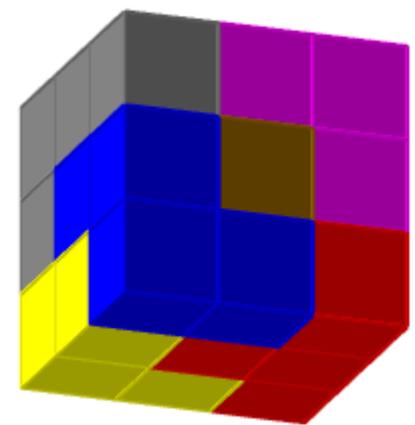
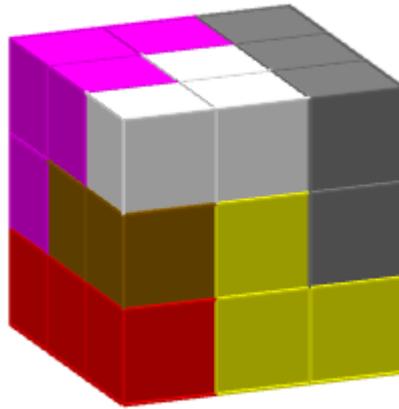
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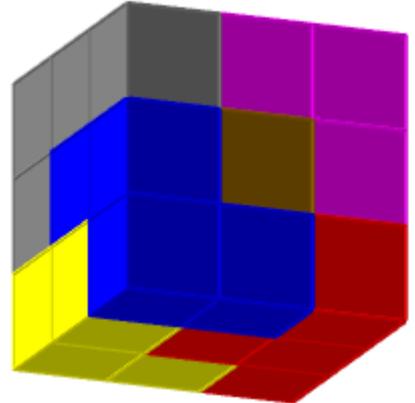
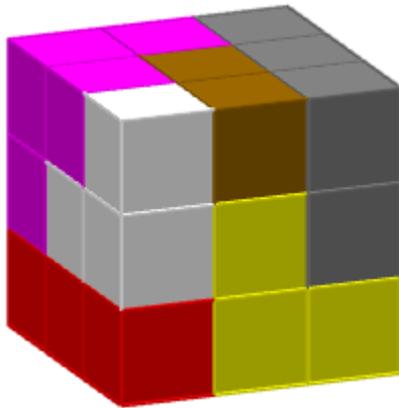
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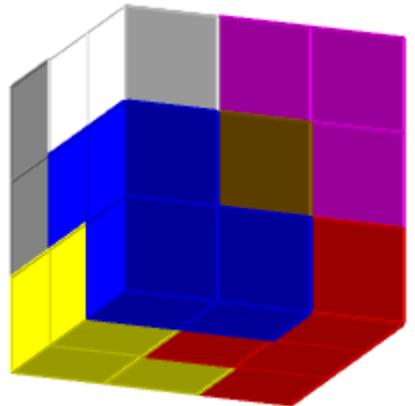
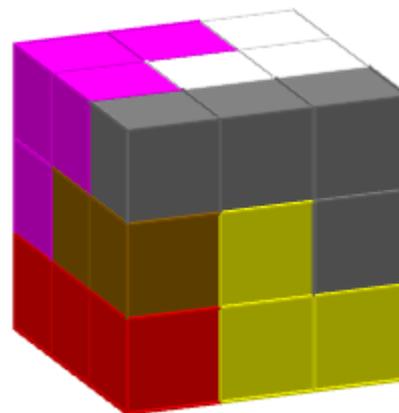
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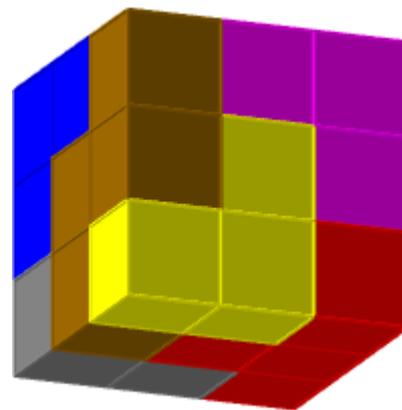
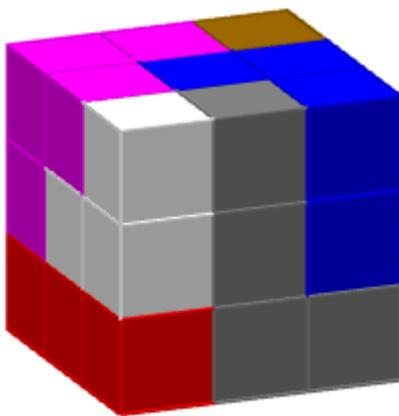
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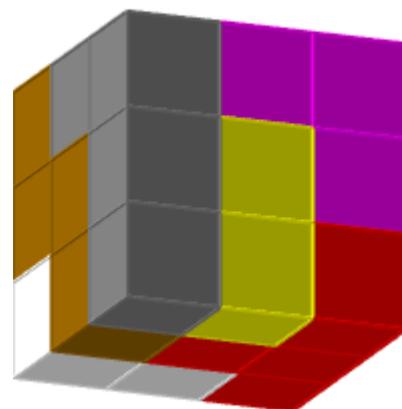
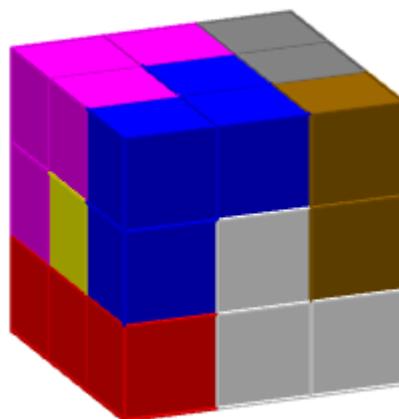
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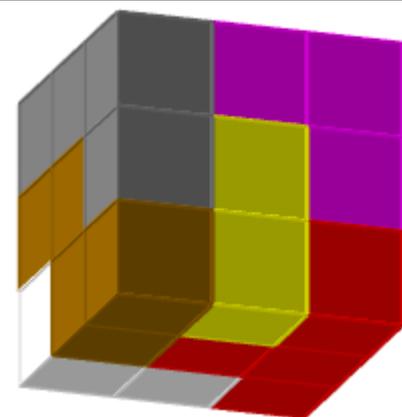
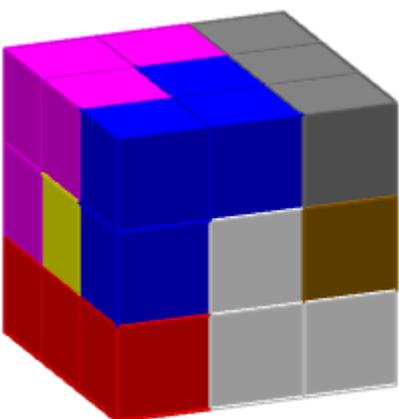
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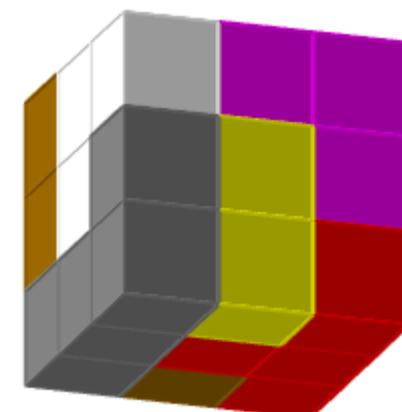
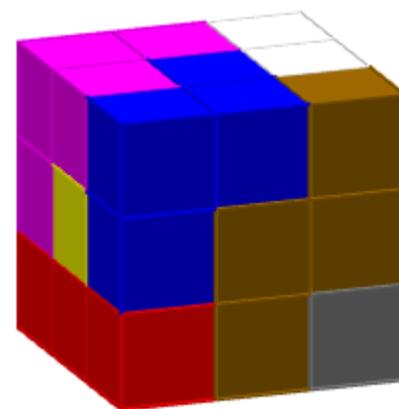
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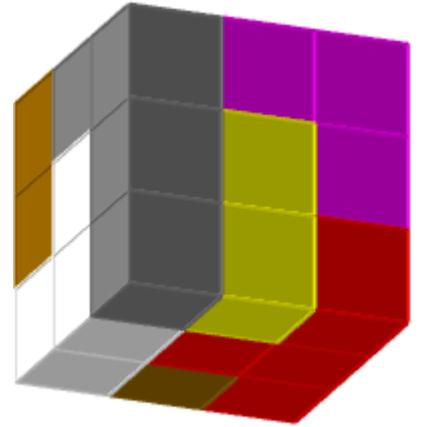
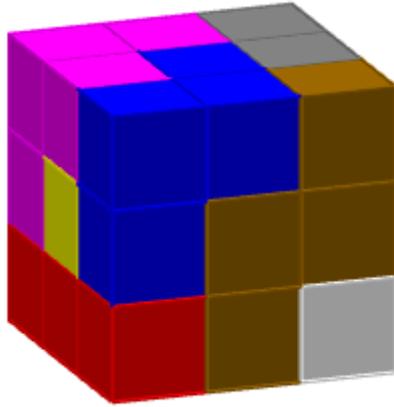
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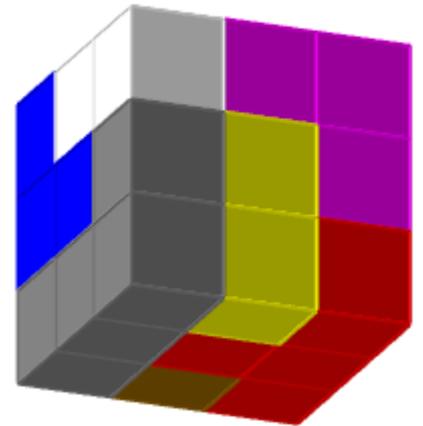
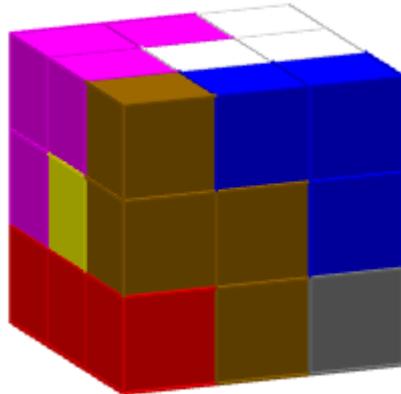
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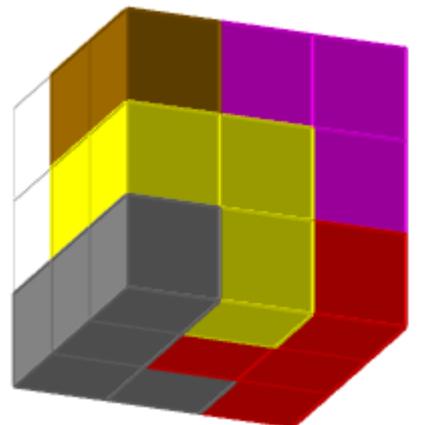
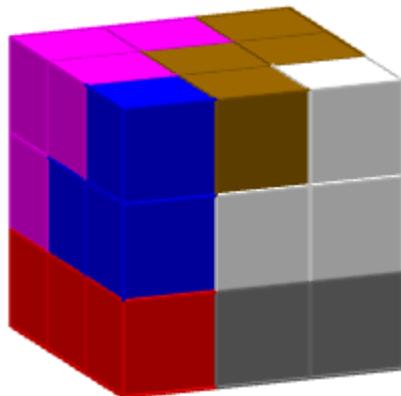
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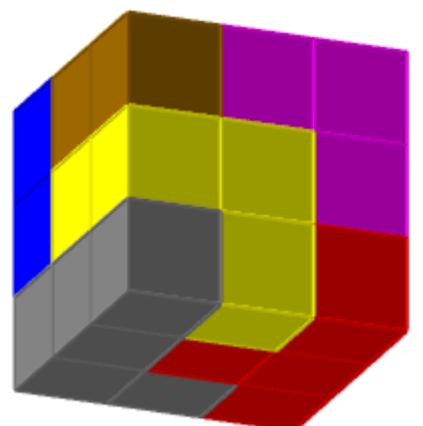
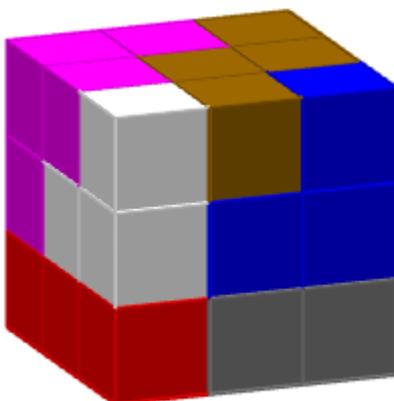
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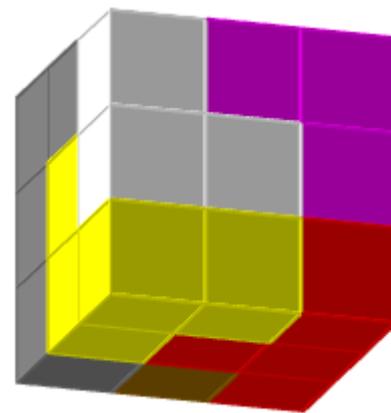
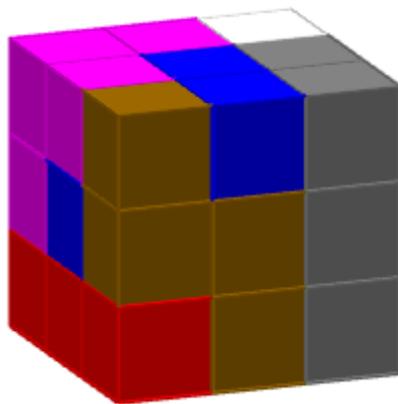
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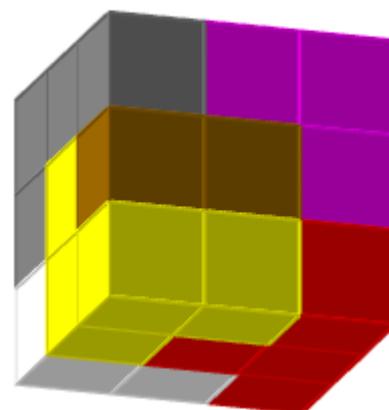
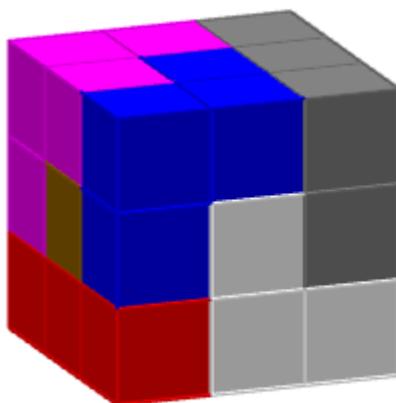
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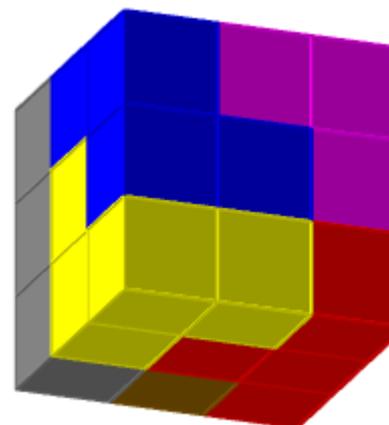
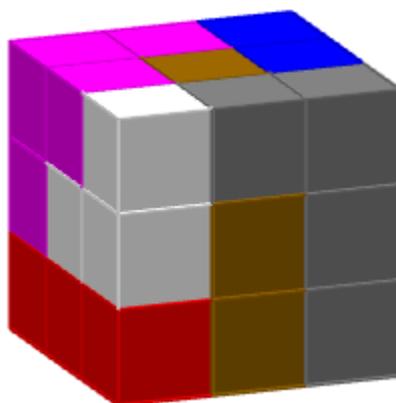


Solutions

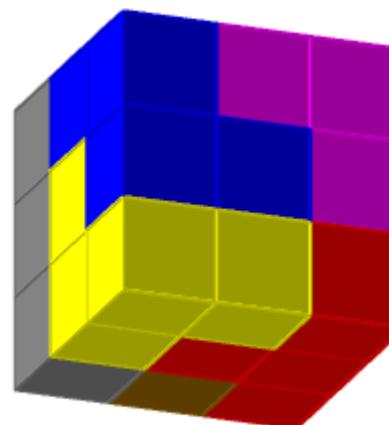
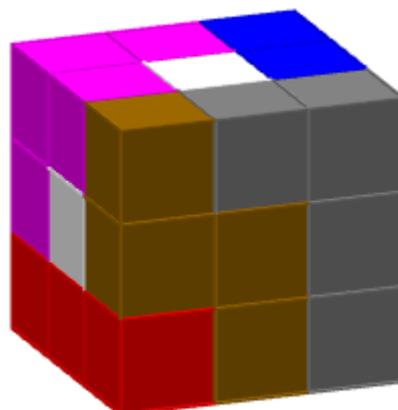
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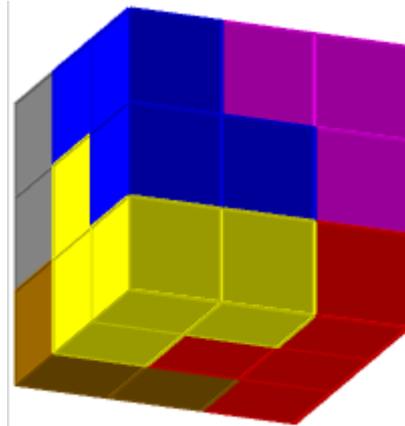
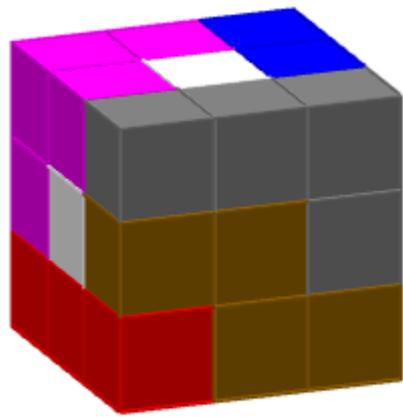
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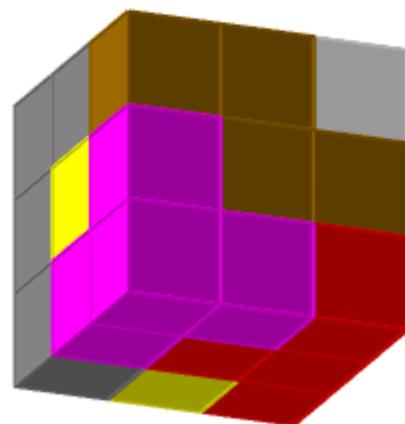
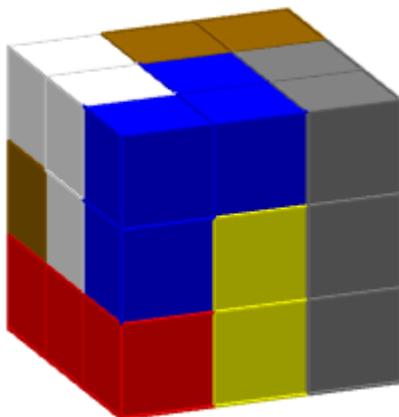
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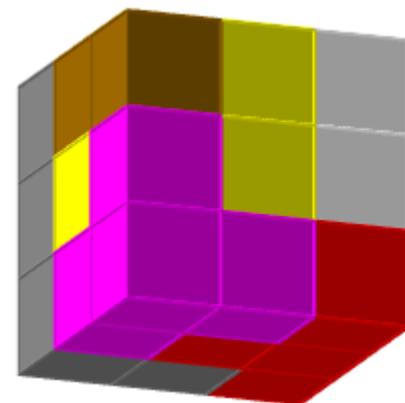
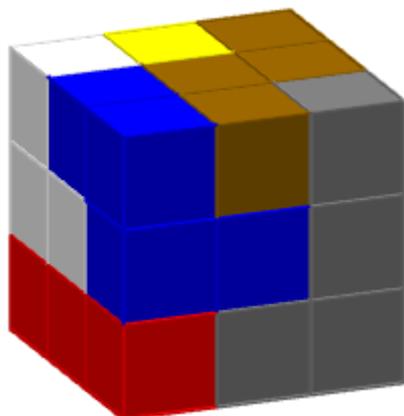
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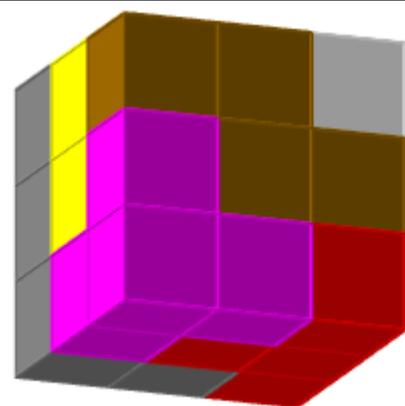
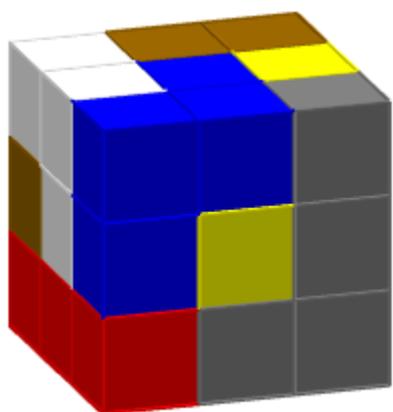
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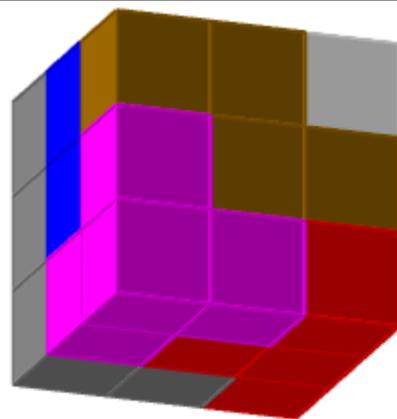
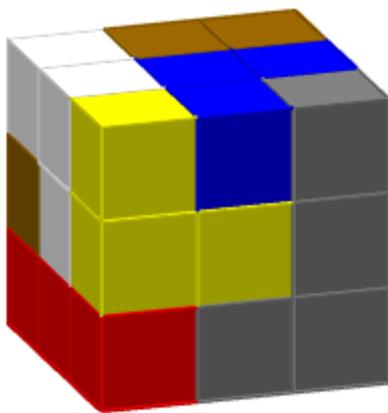
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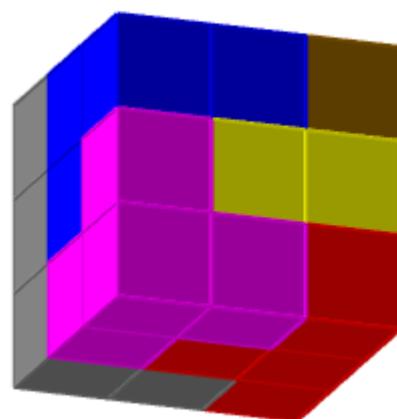
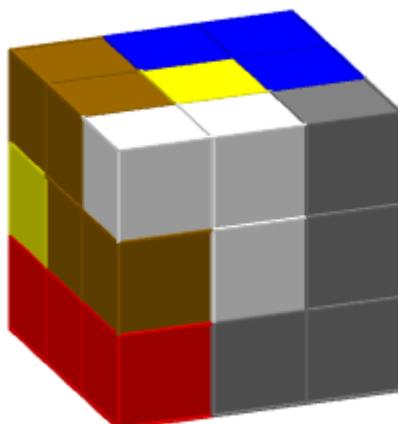
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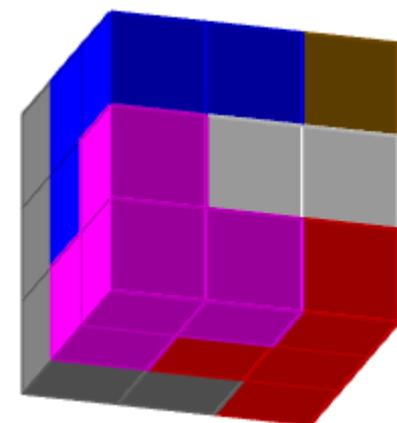
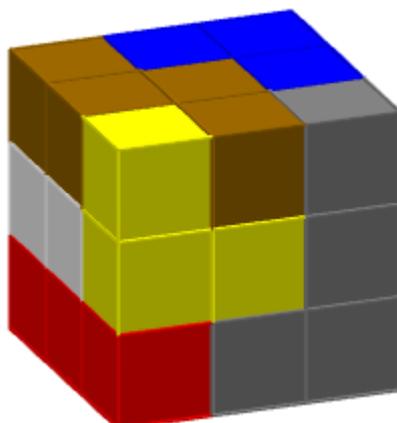
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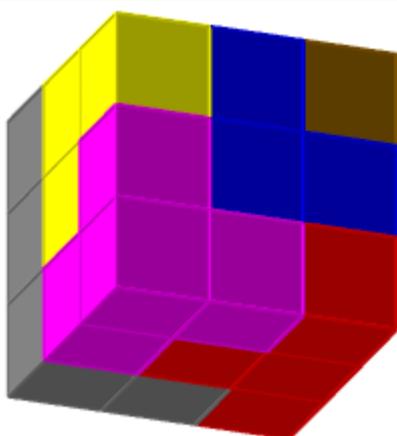
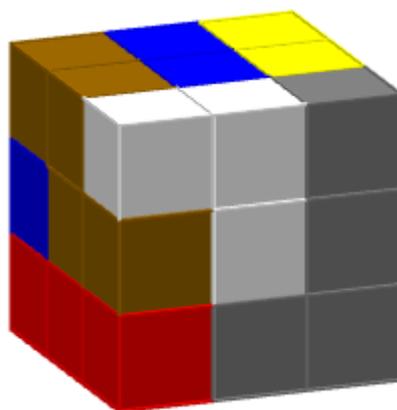
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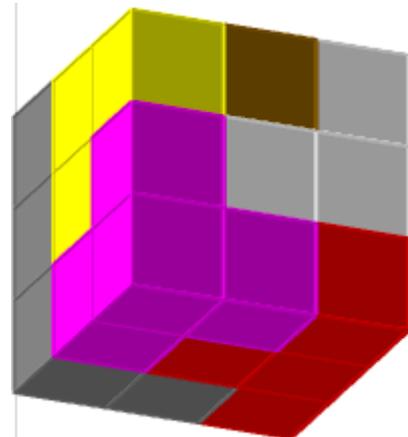
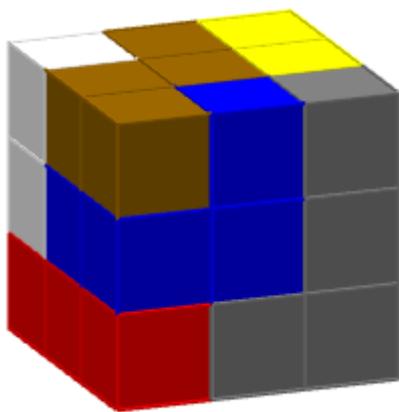
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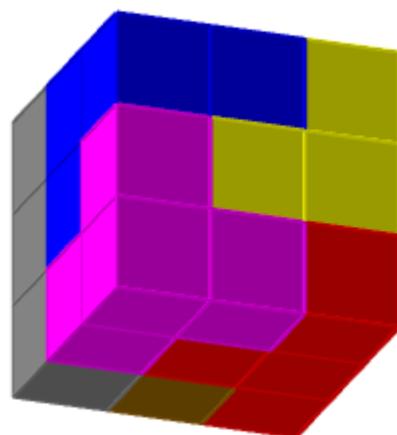
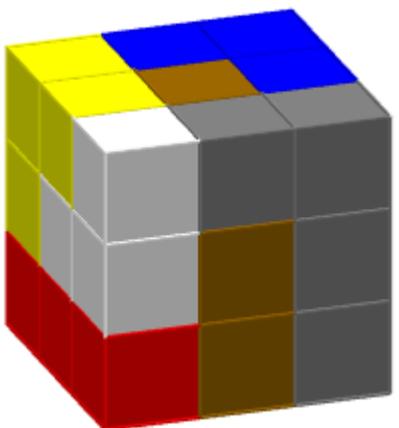
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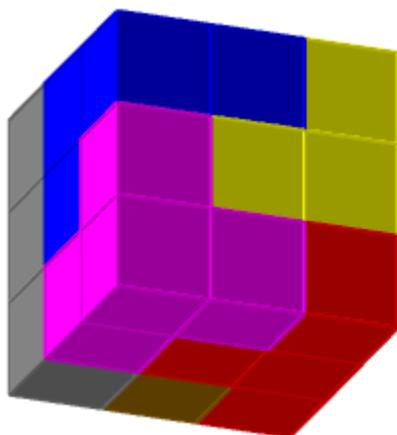
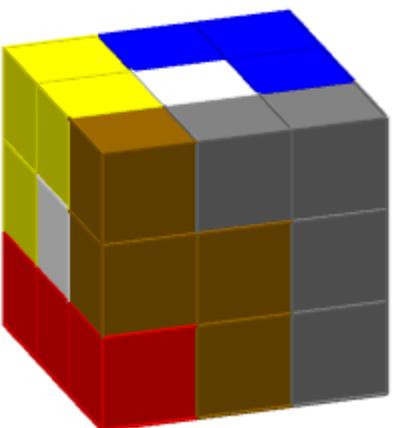
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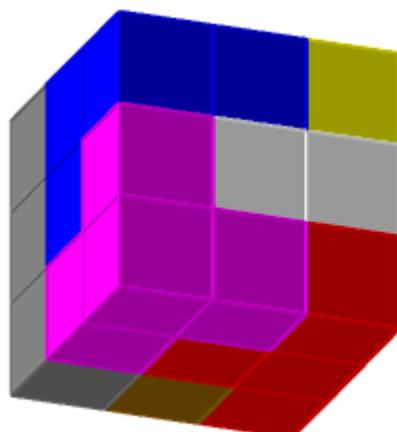
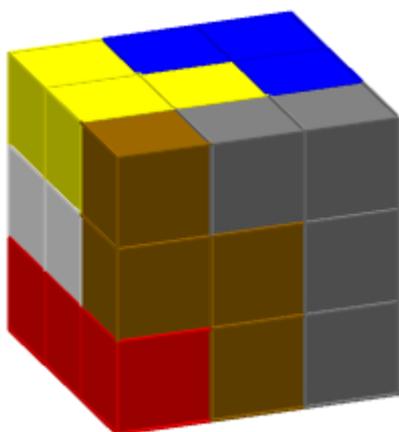
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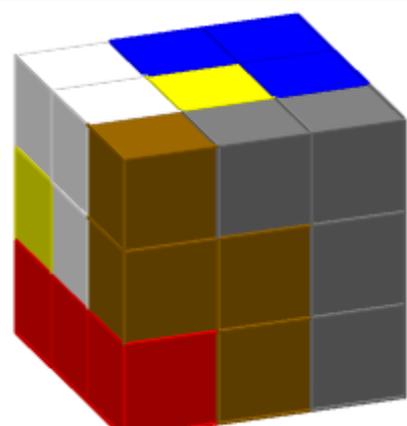
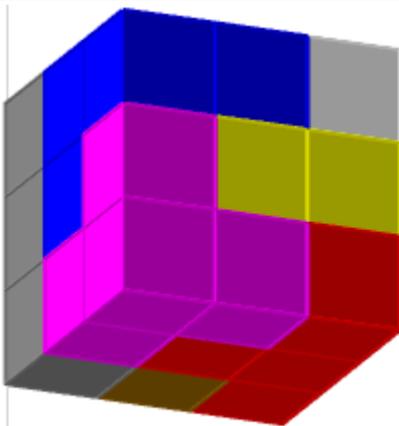
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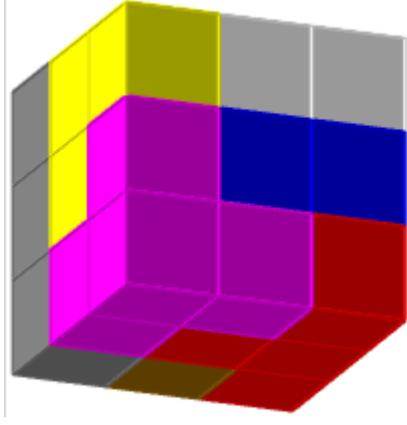
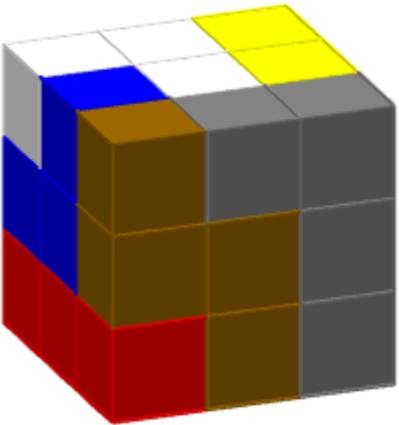
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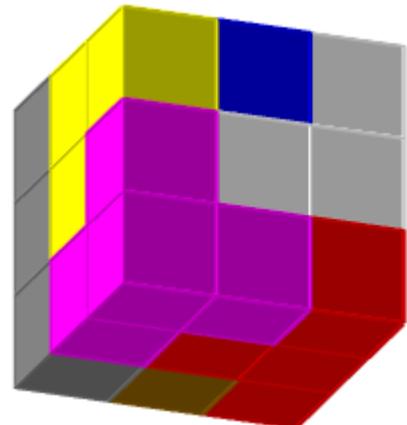
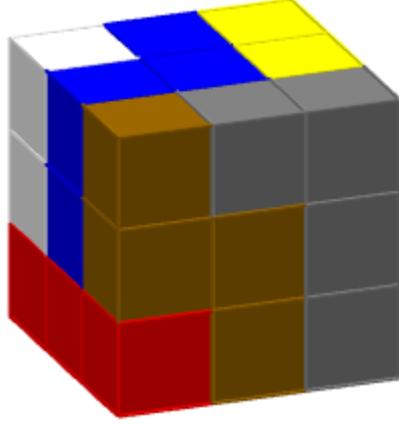
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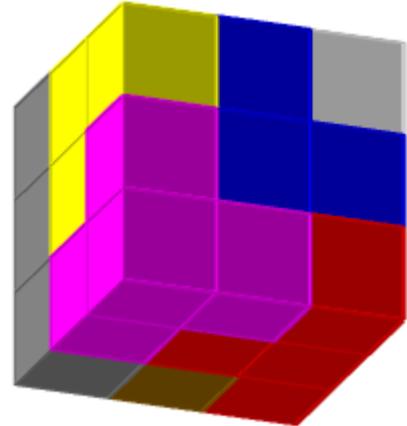
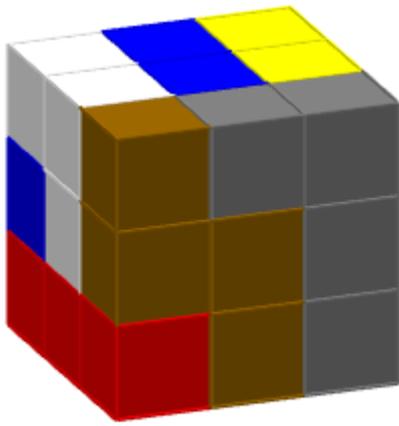
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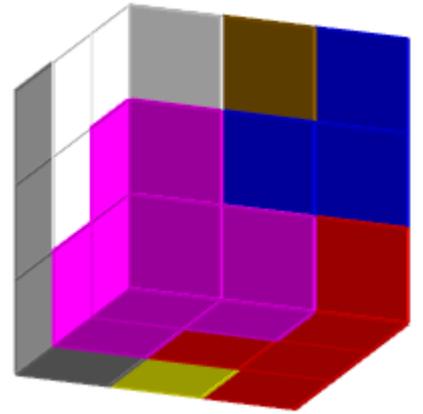
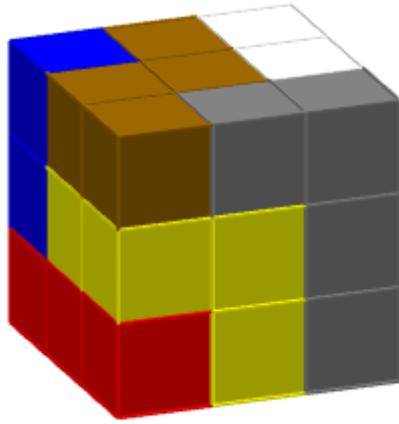
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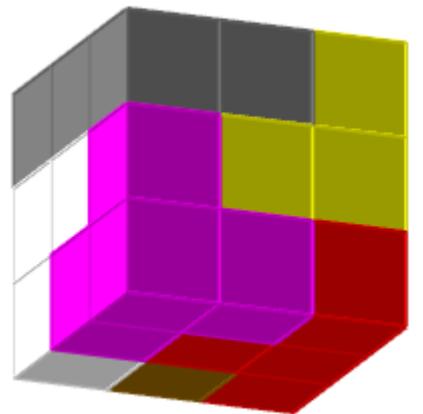
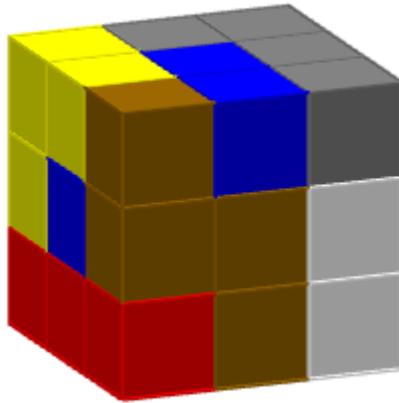
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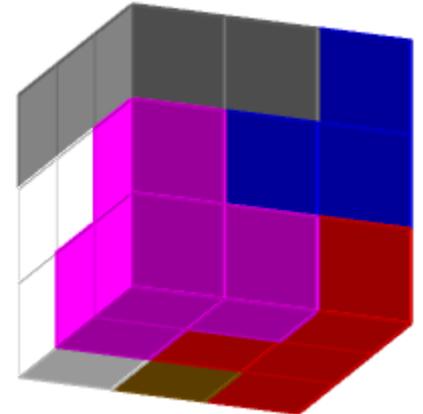
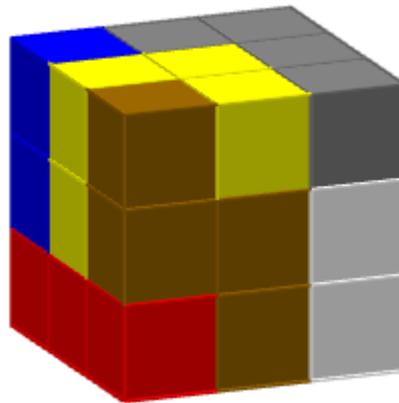
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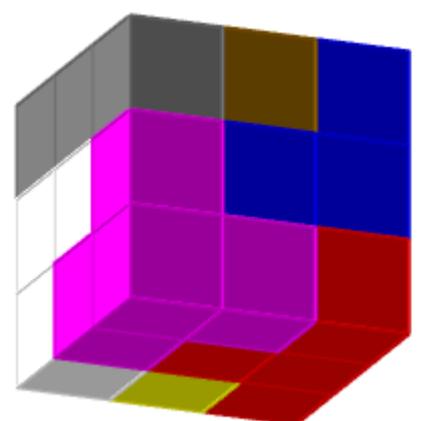
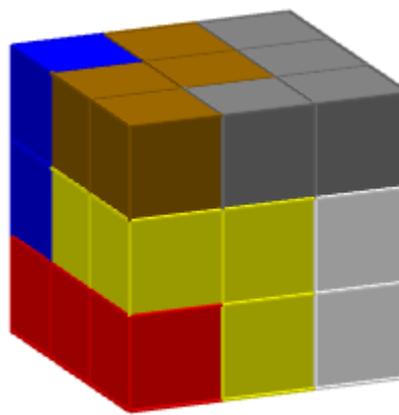
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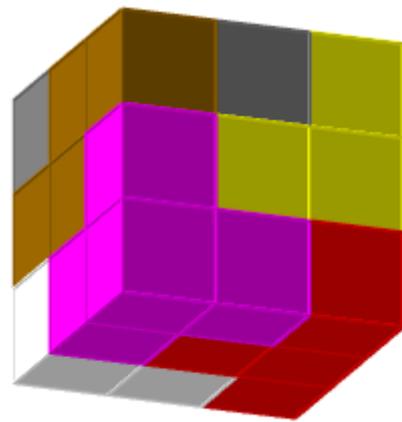
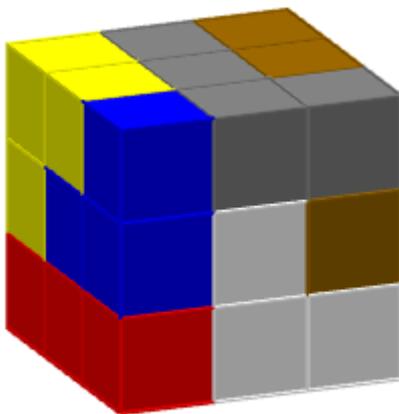
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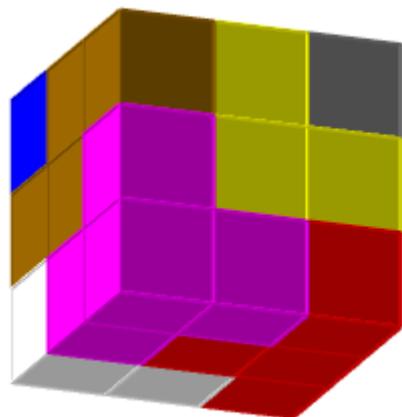
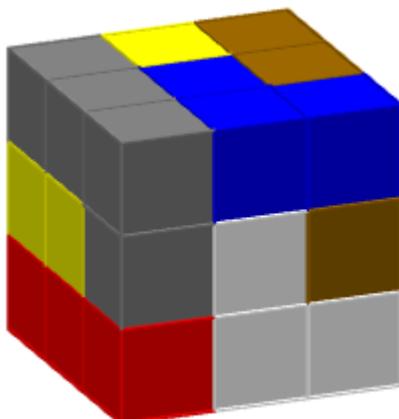
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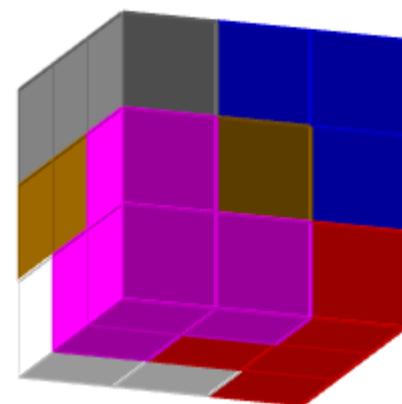
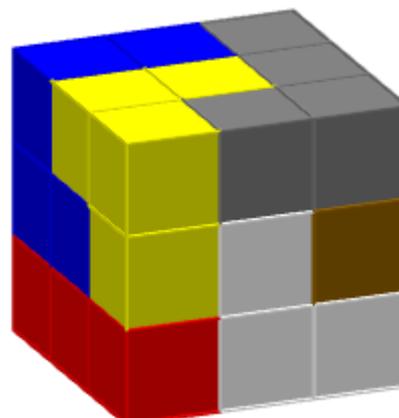
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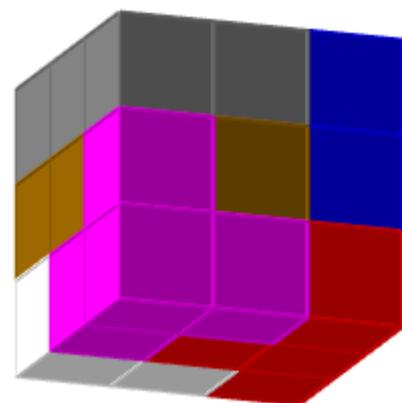
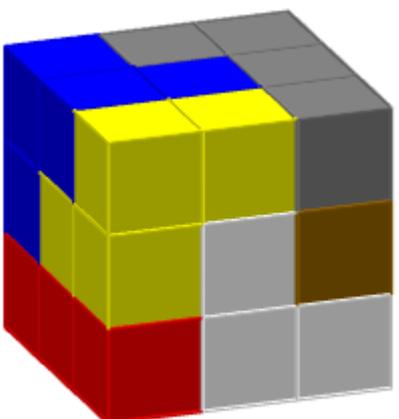
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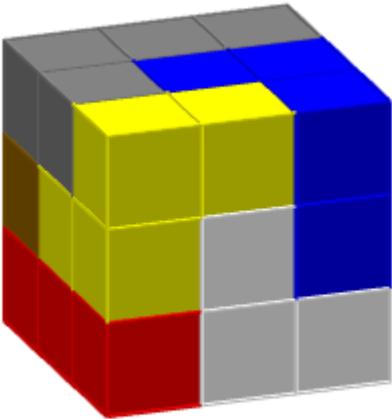
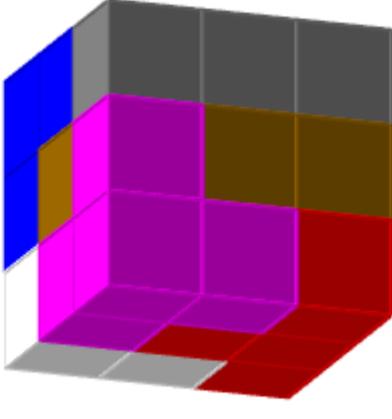
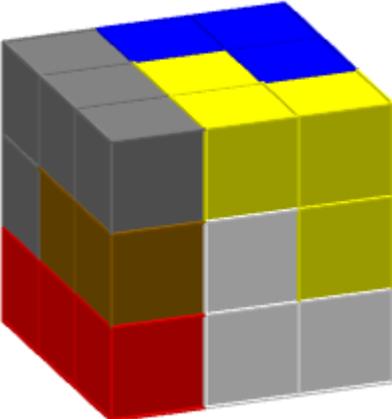
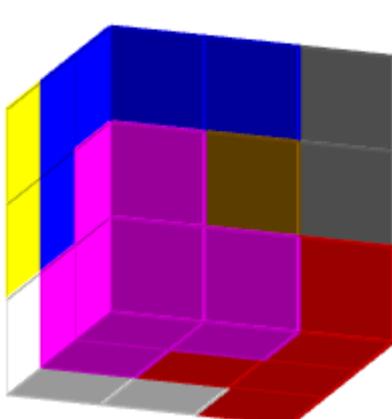
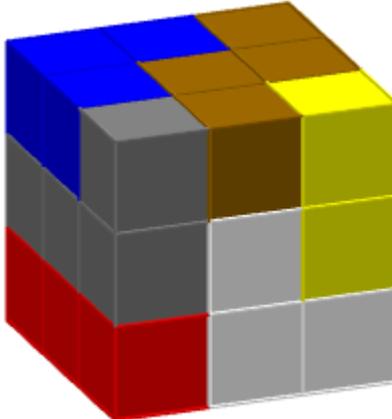
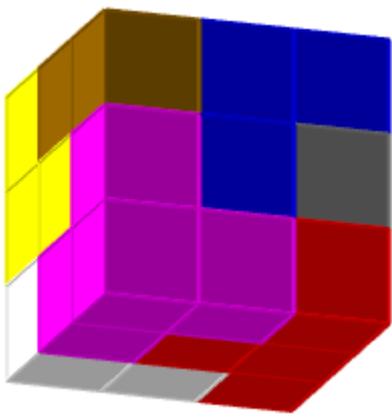
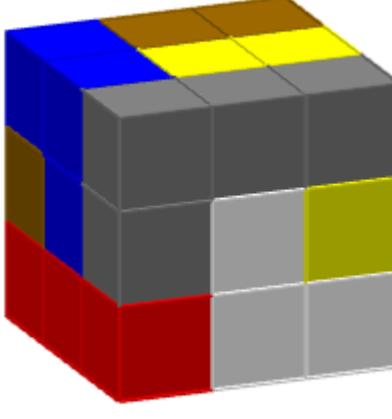
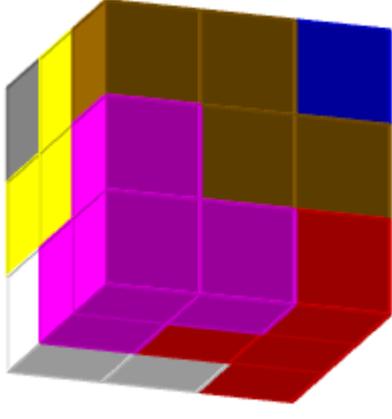


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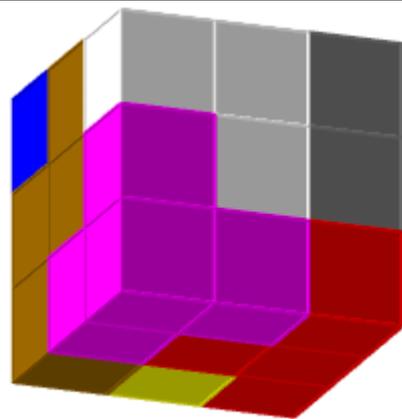
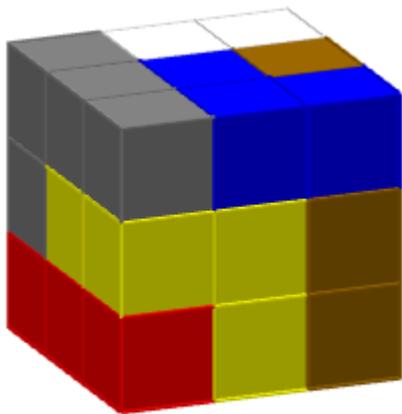


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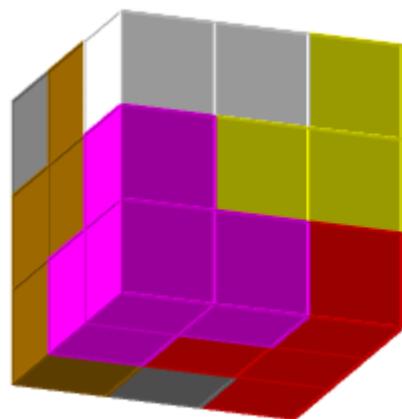
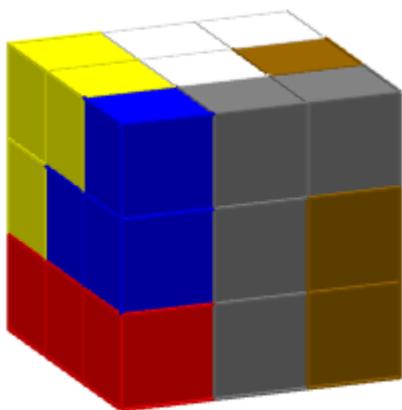


Solutions	Vue de face-dessus	Vue de dos-dessous
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92		
93		
94		

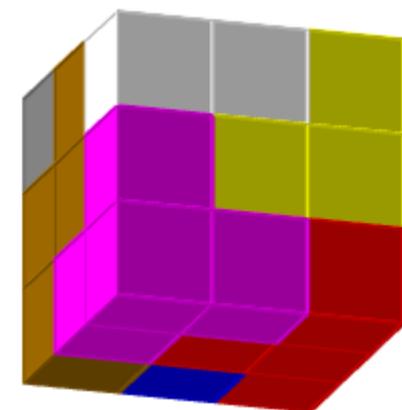
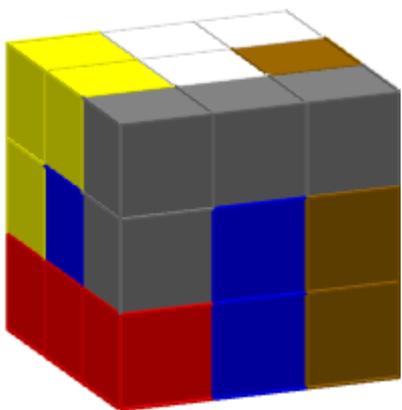
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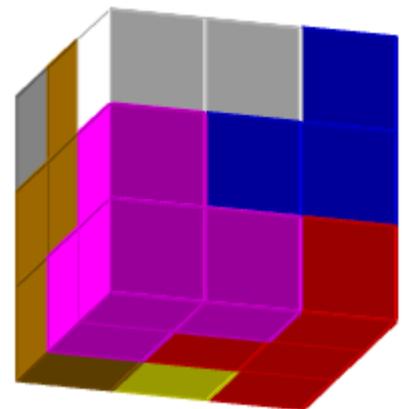
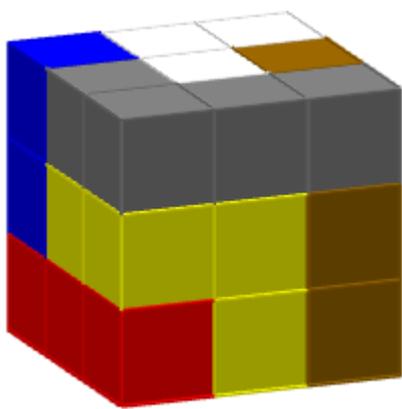
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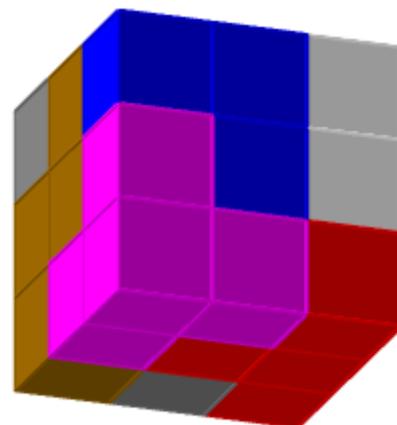
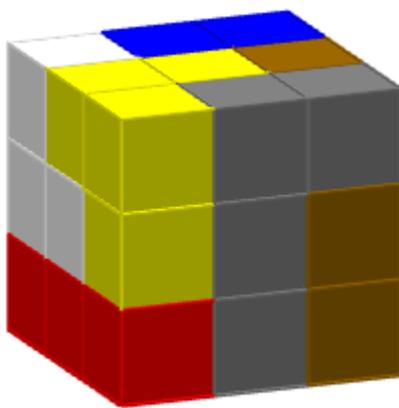
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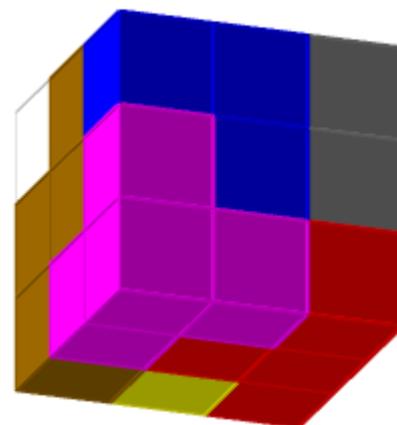
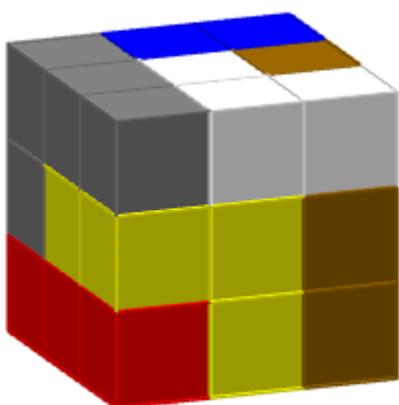
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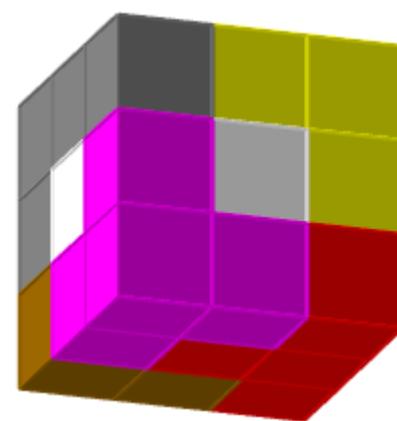
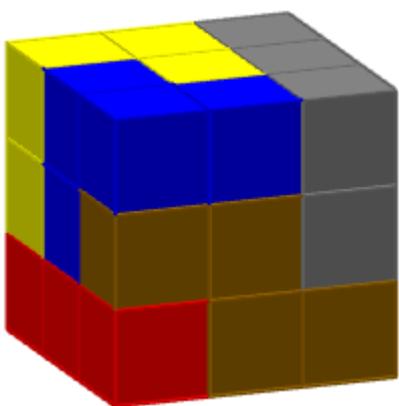
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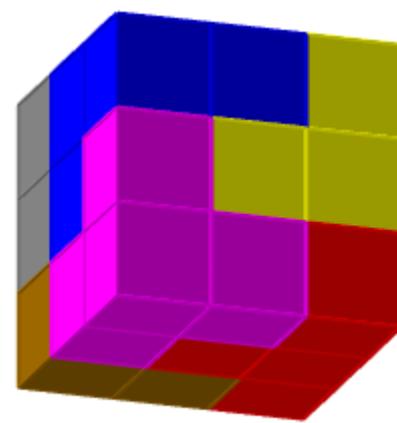
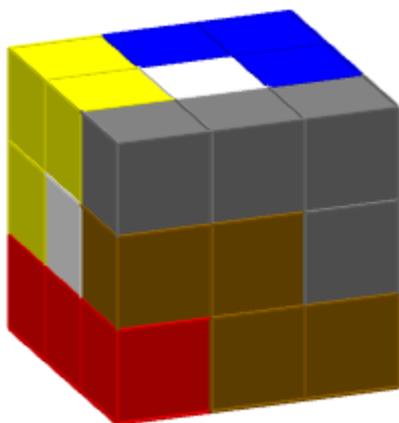
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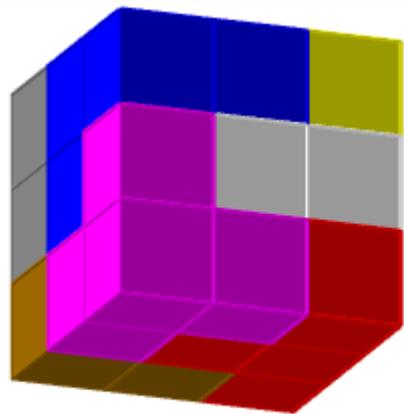
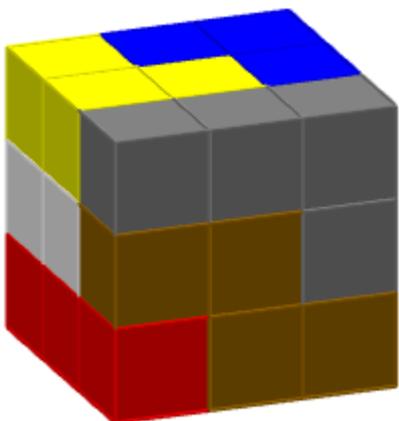
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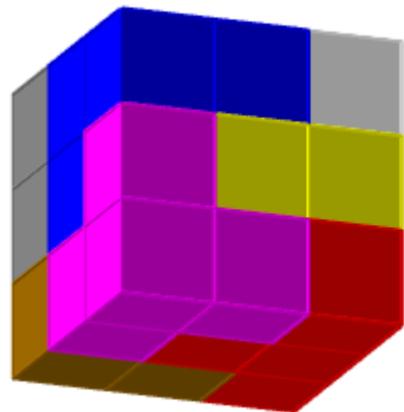
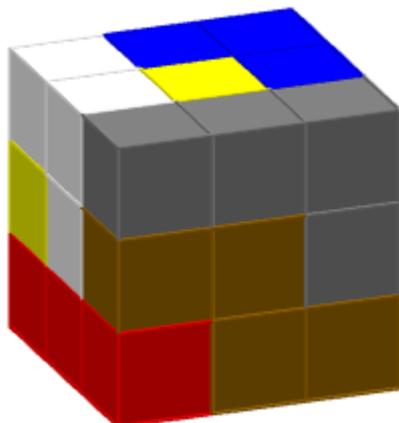
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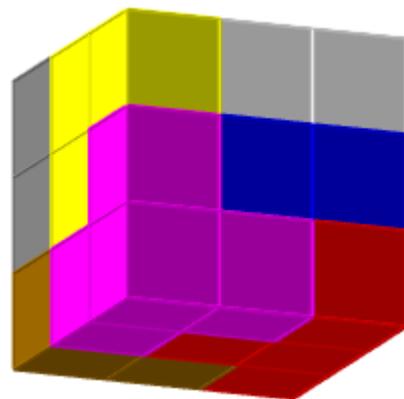
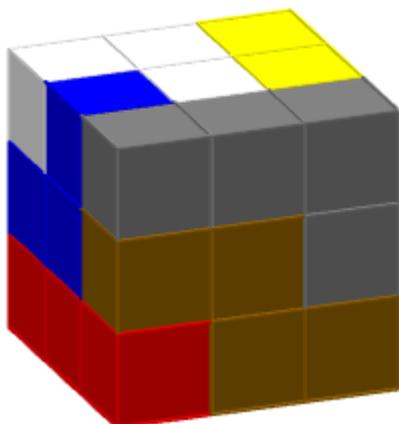
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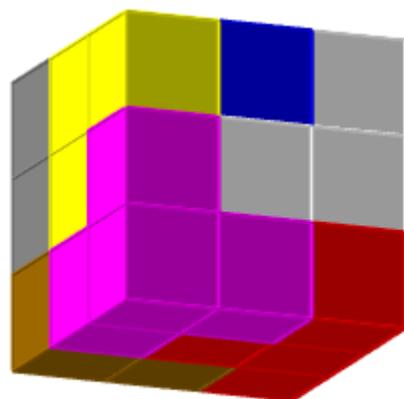
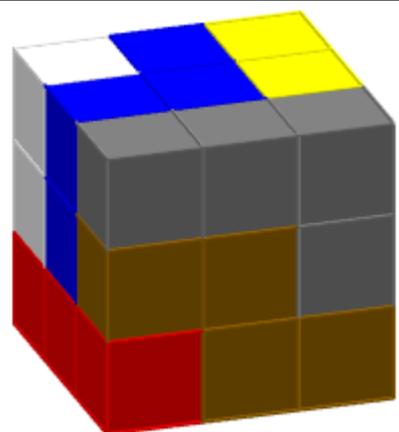
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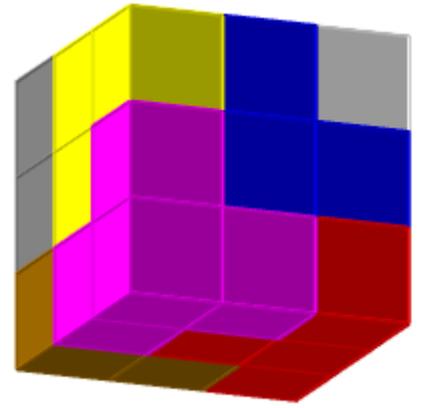
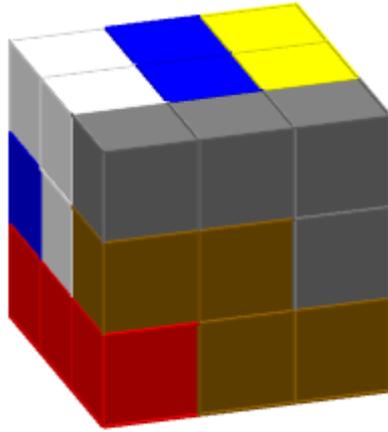
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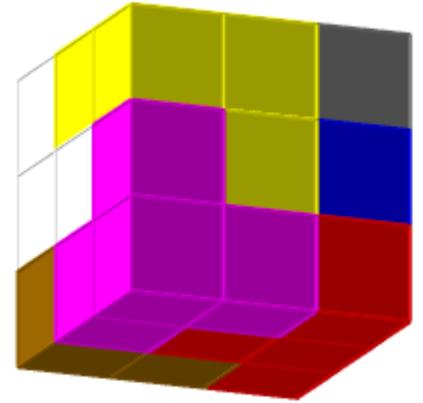
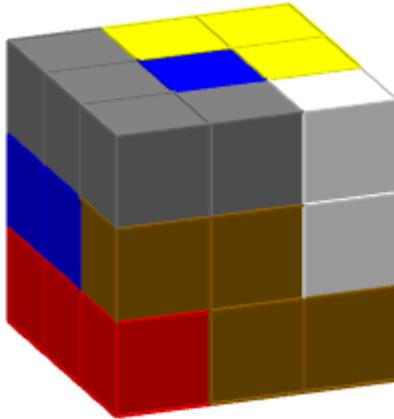
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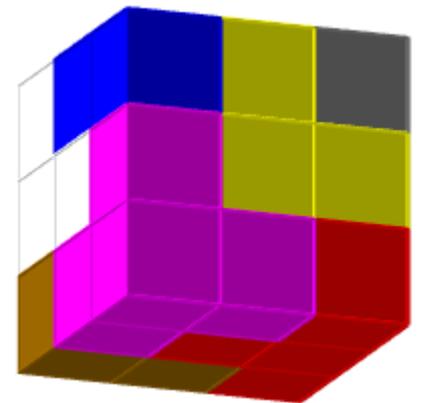
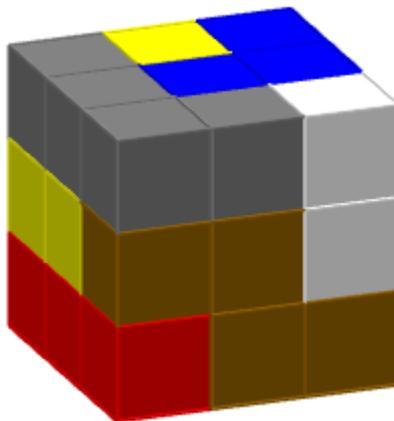
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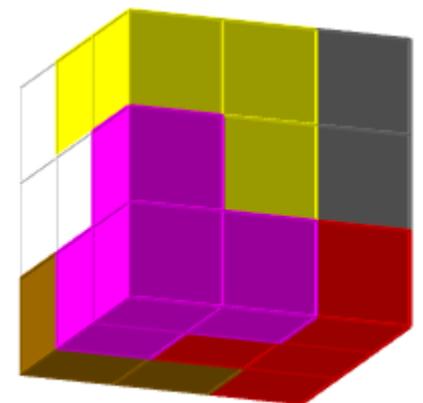
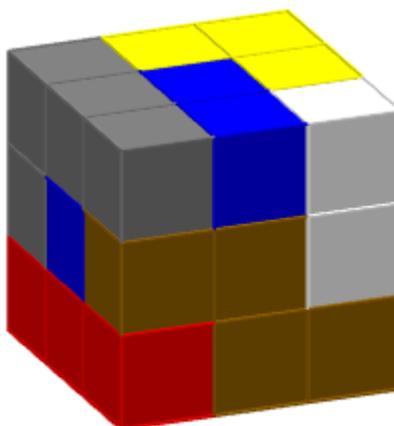
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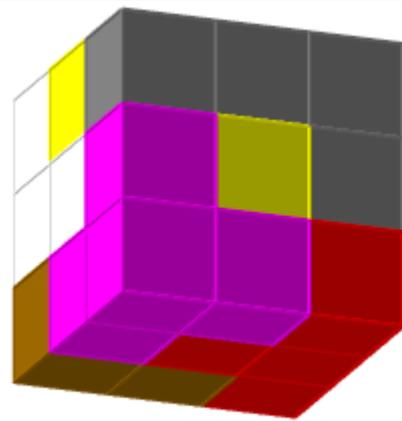
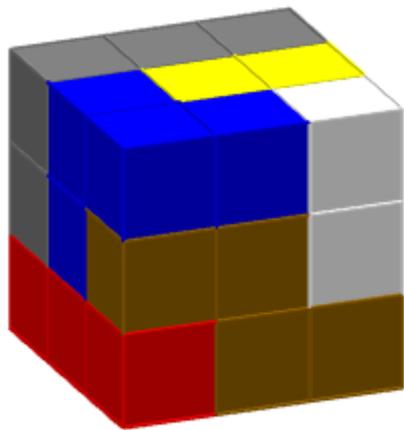
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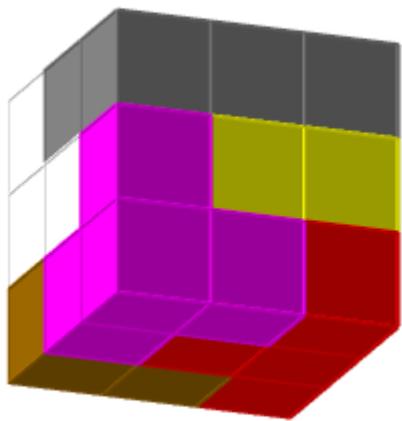
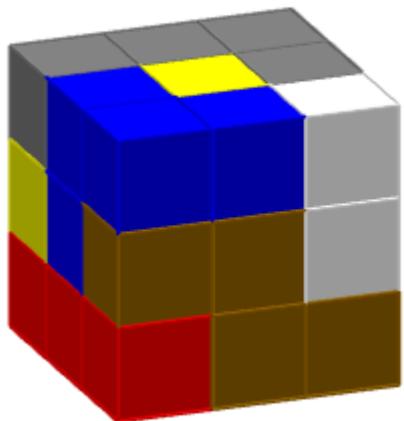
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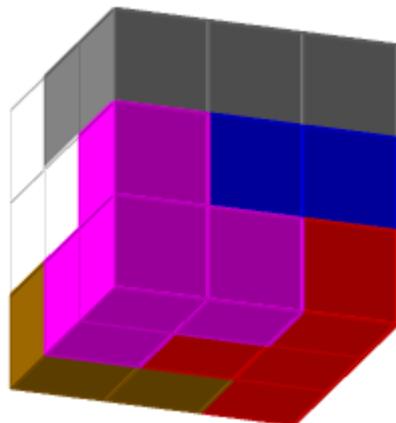
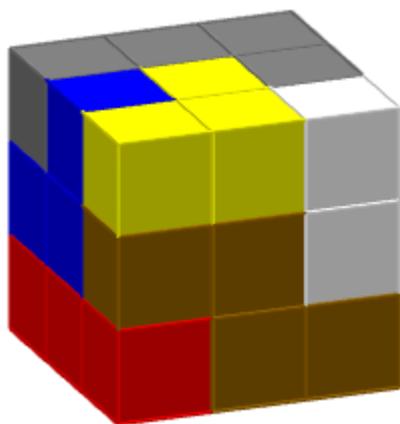
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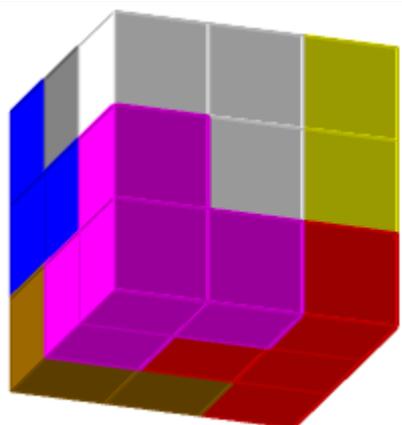
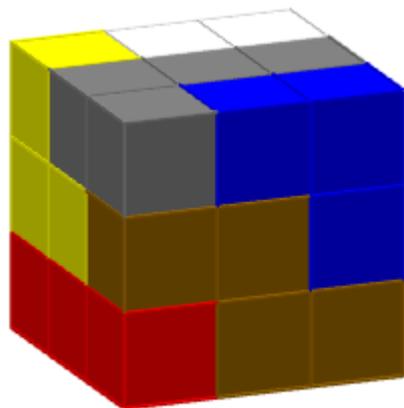
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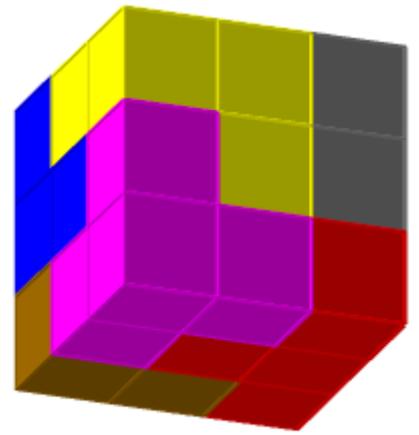
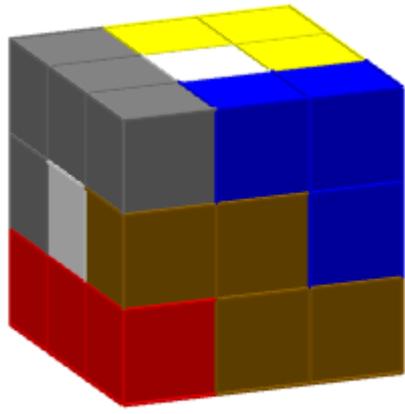
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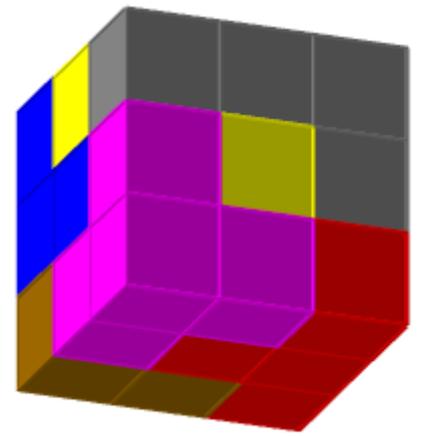
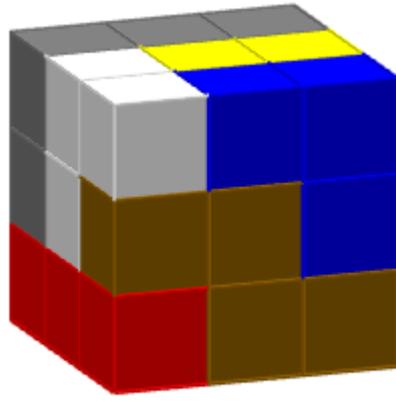
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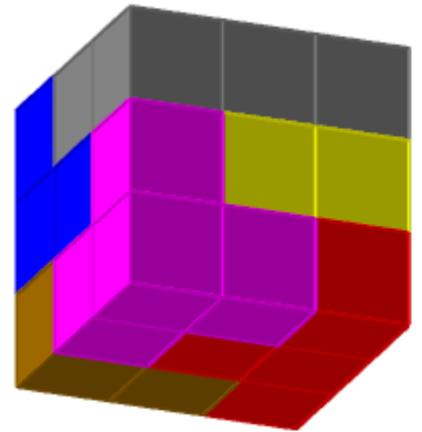
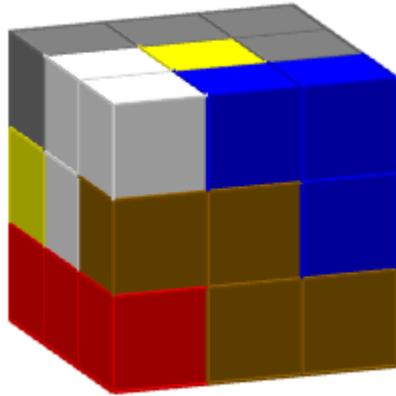
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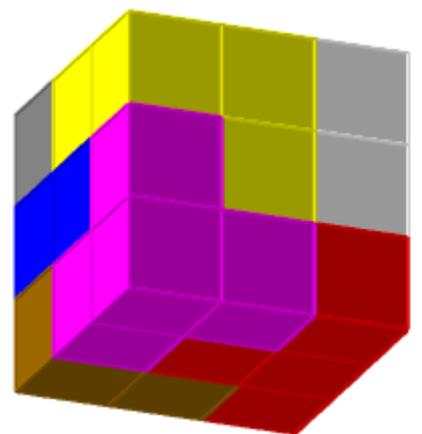
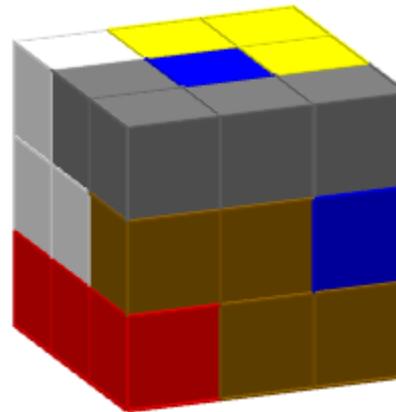
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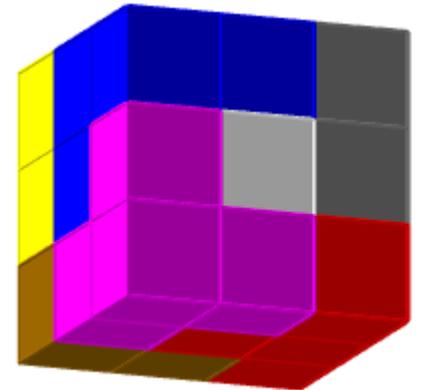
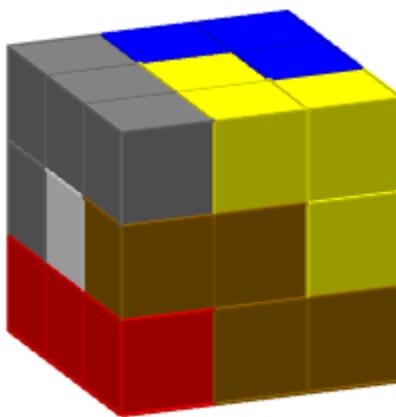
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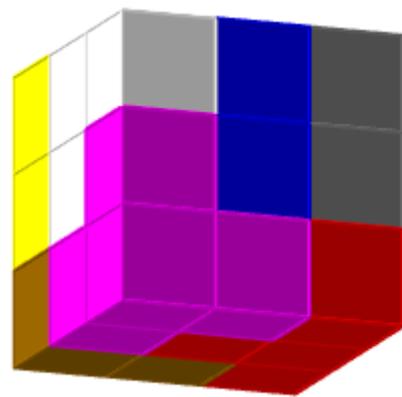
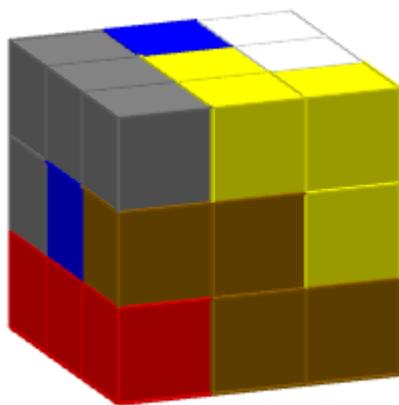
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119



120

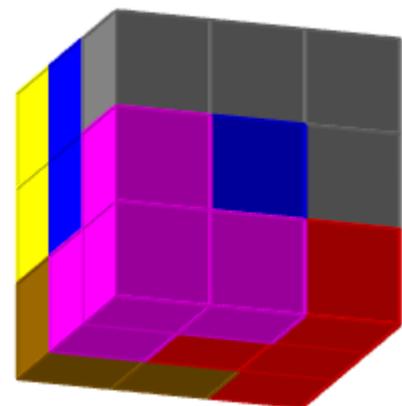
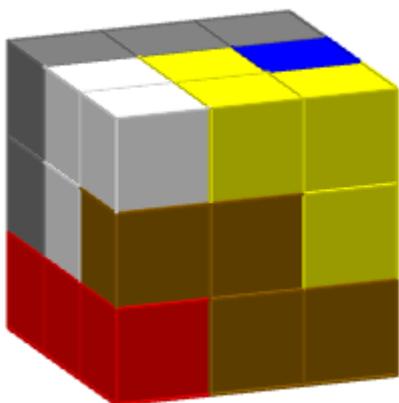


Solutions

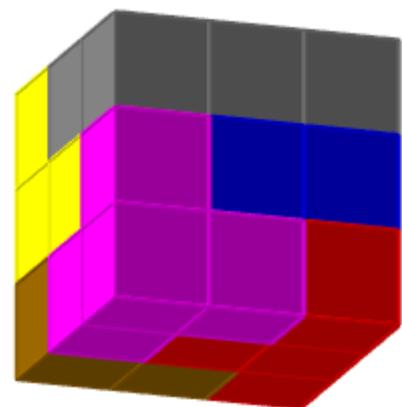
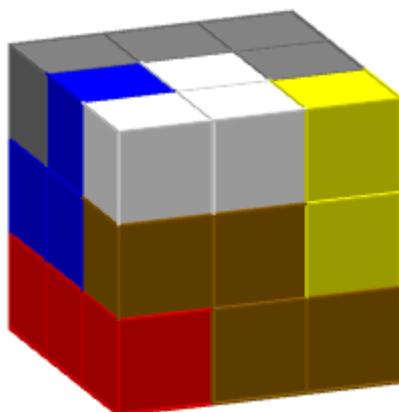
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Vue de dos-dessus

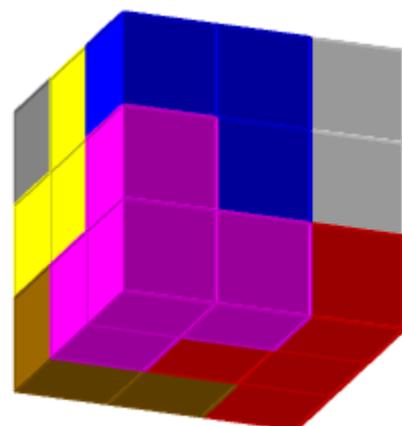
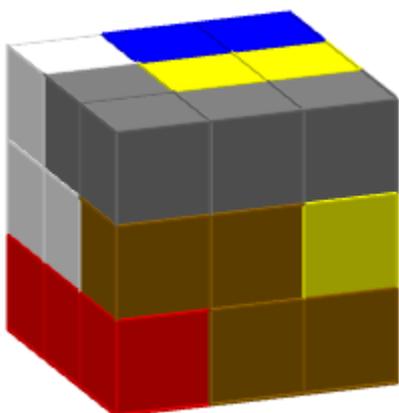
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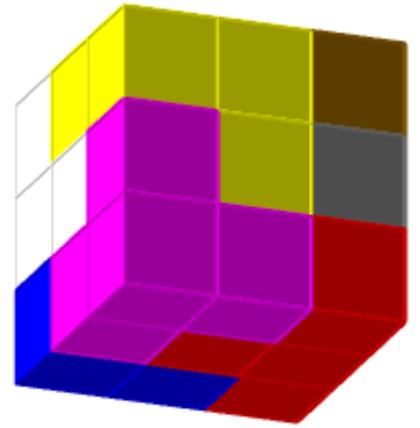
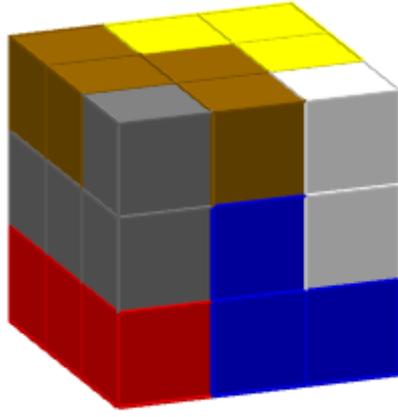
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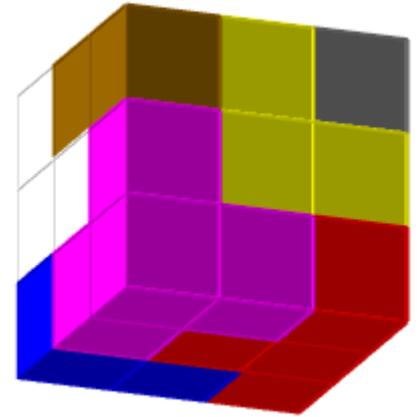
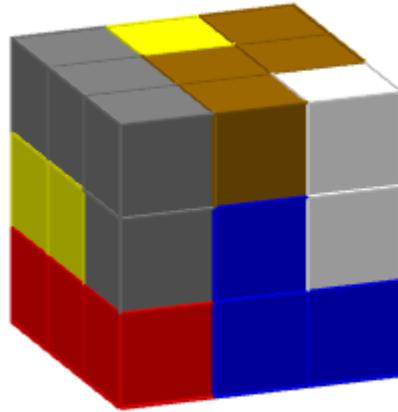
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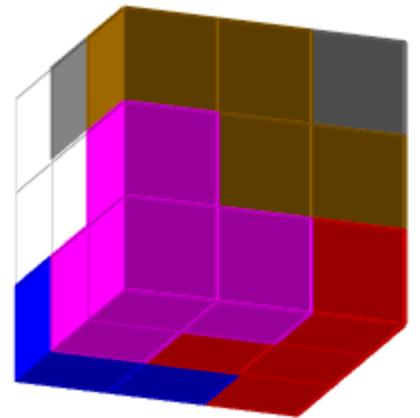
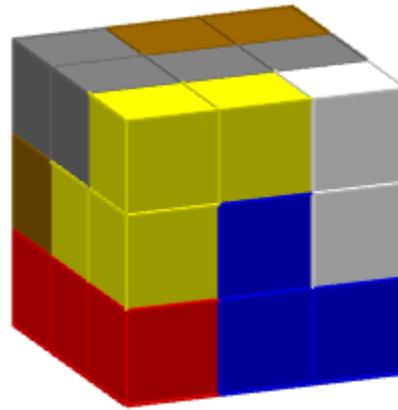
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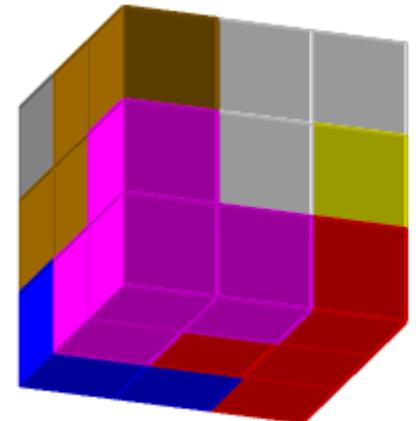
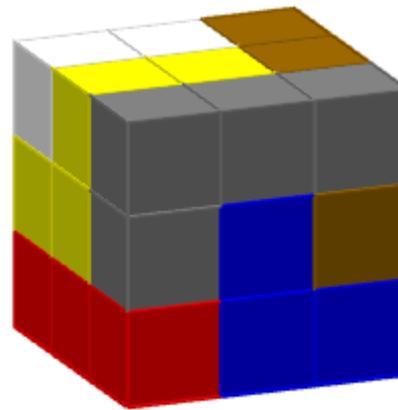
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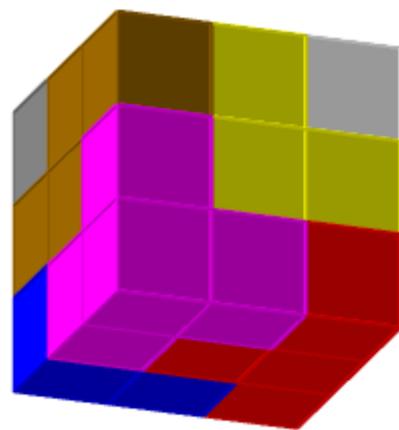
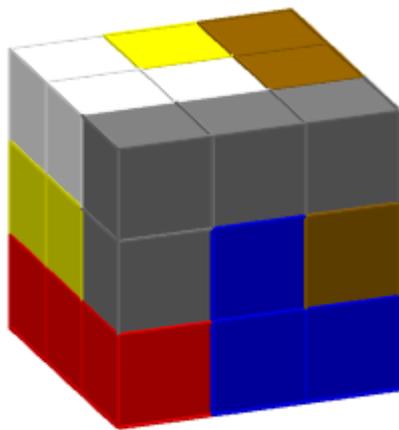
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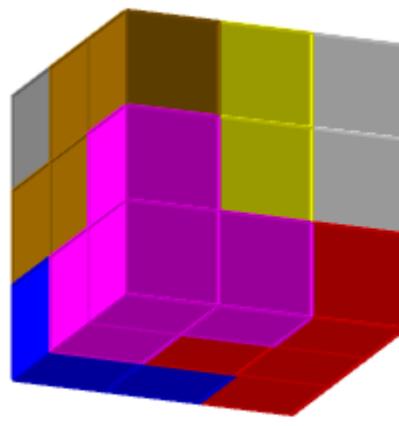
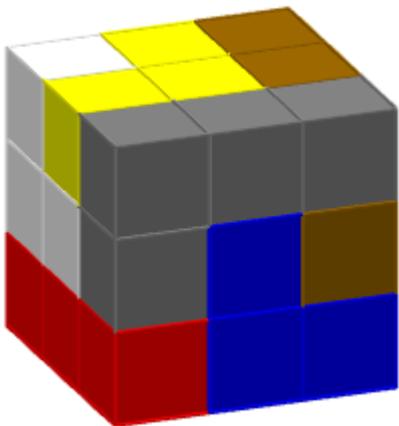
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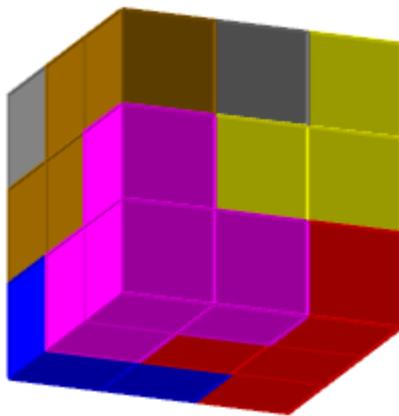
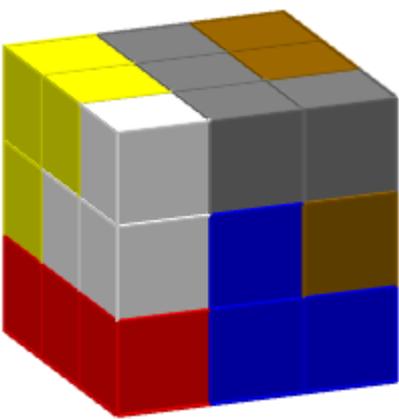
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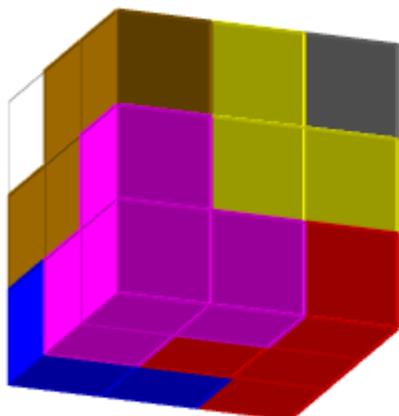
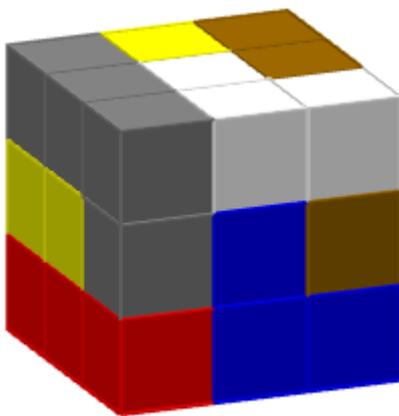
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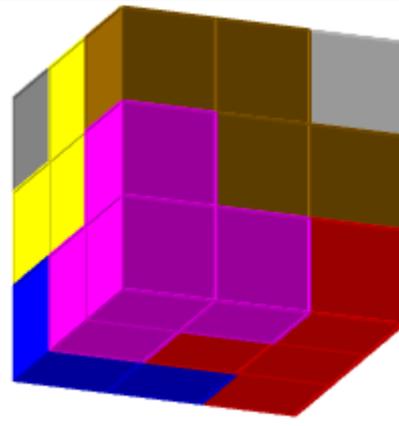
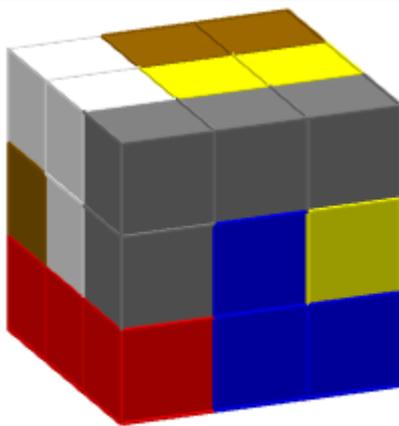
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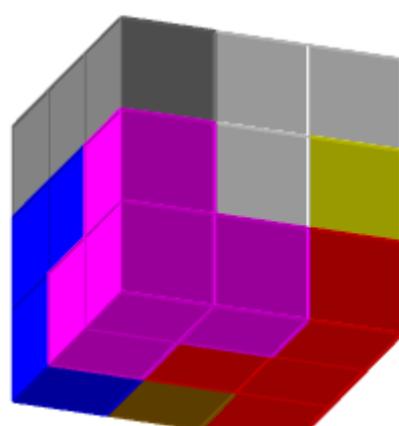
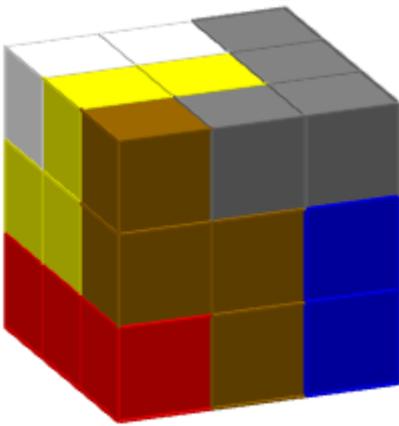
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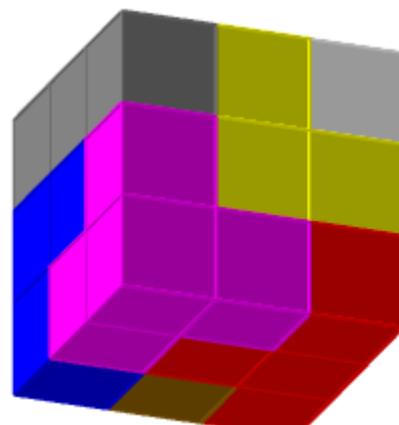
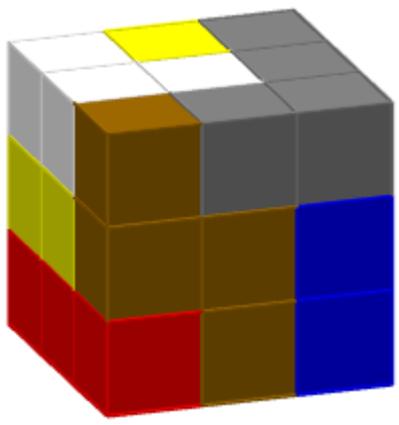
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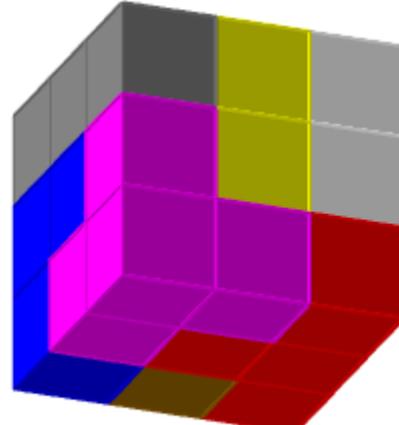
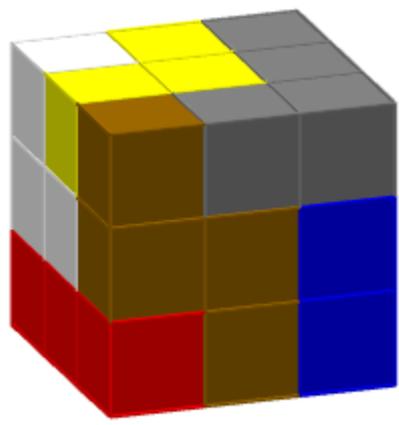
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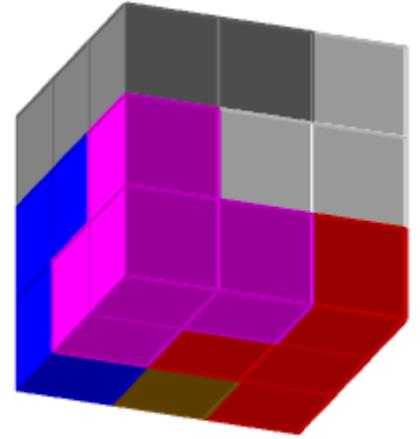
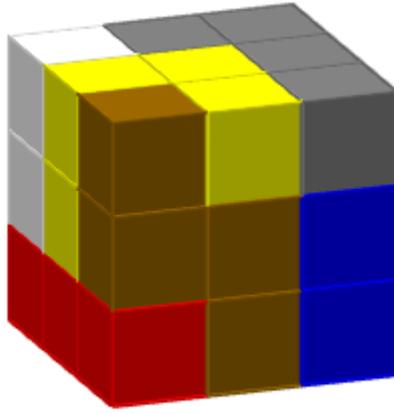
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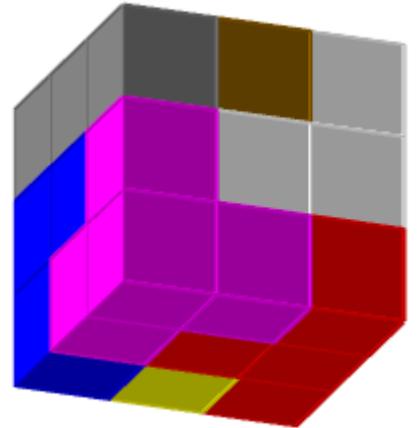
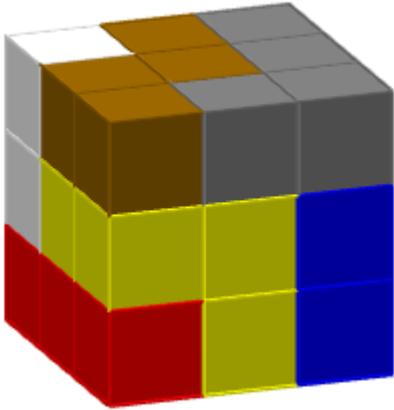
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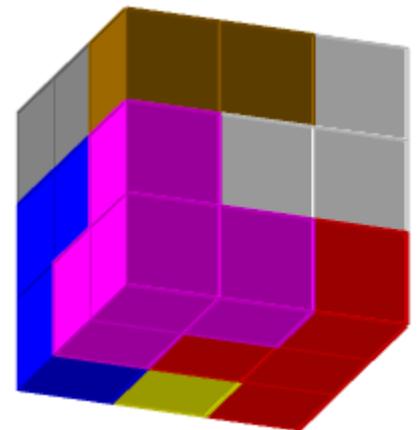
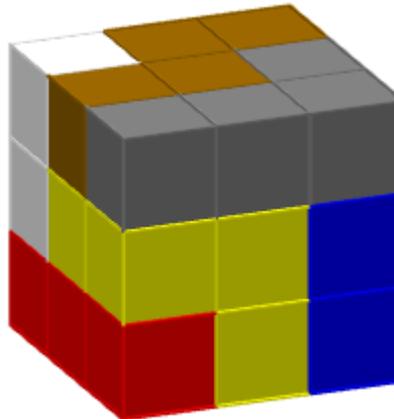
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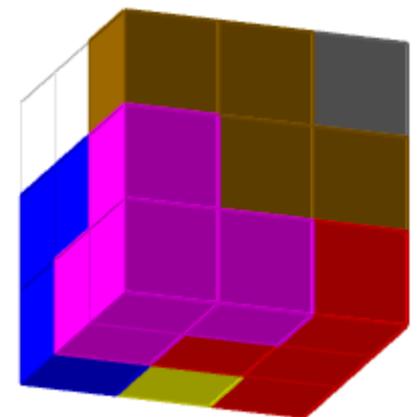
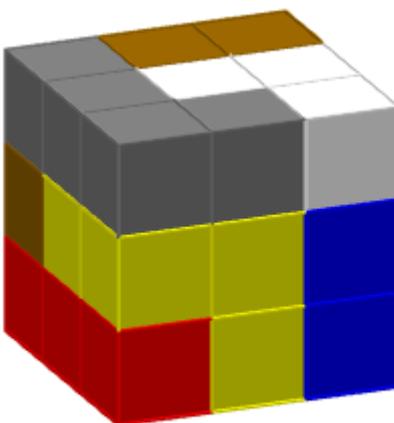
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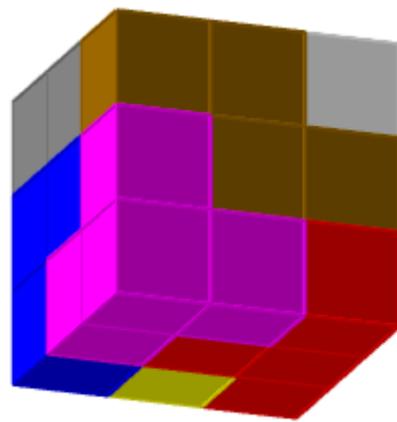
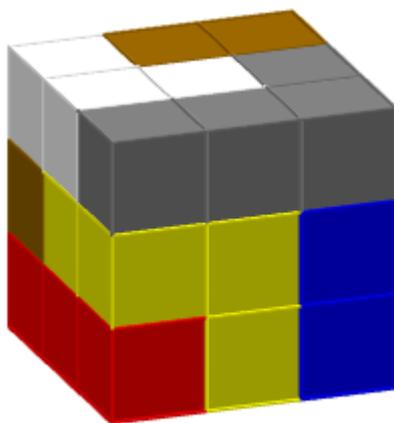
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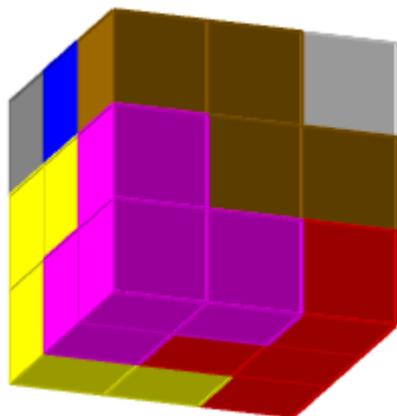
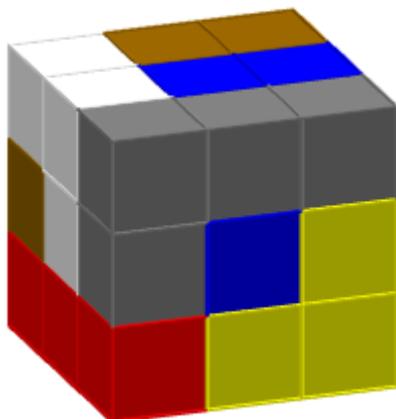
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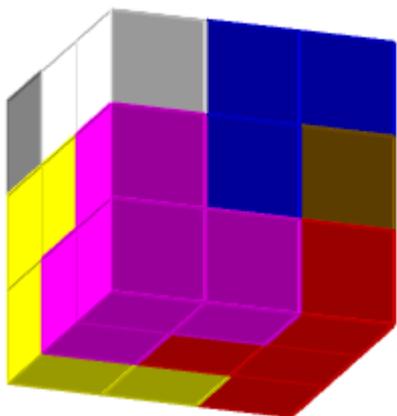
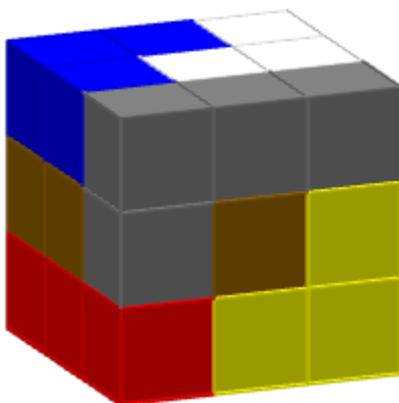
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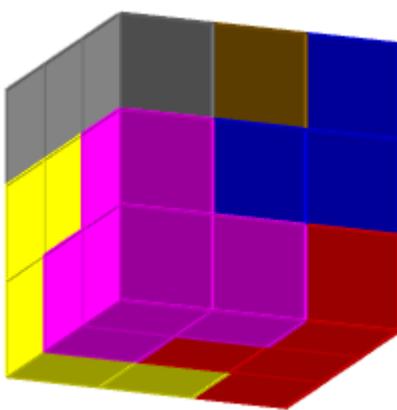
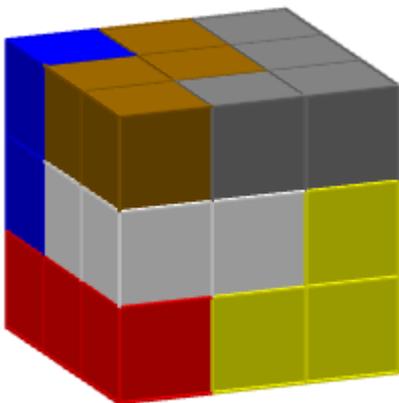
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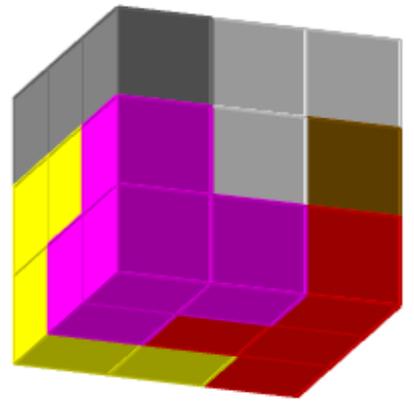
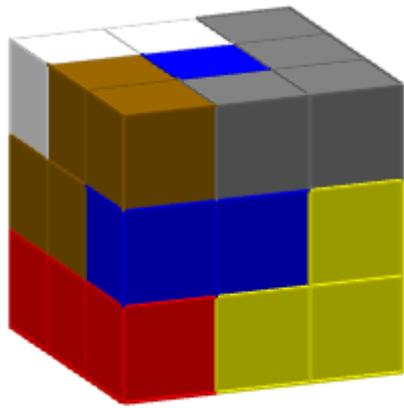
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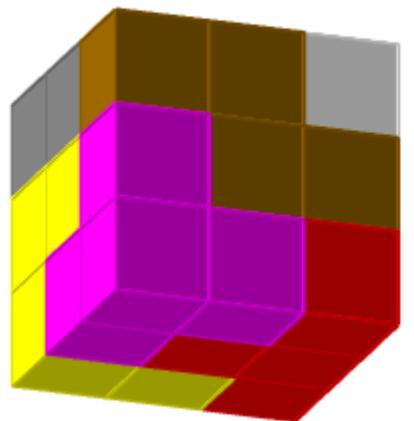
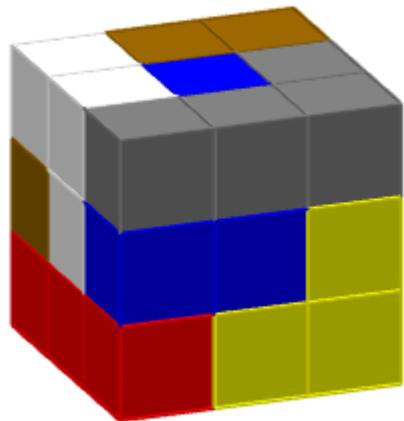
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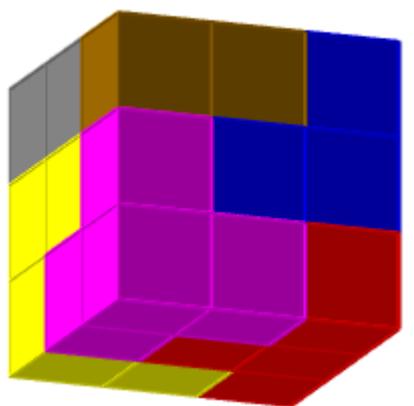
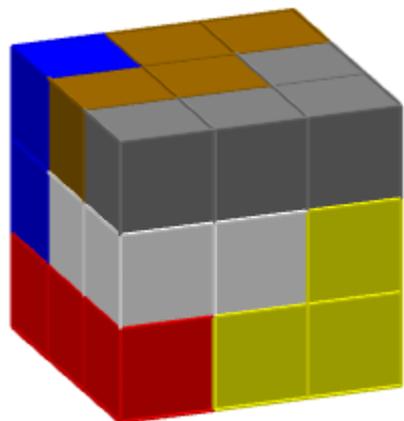
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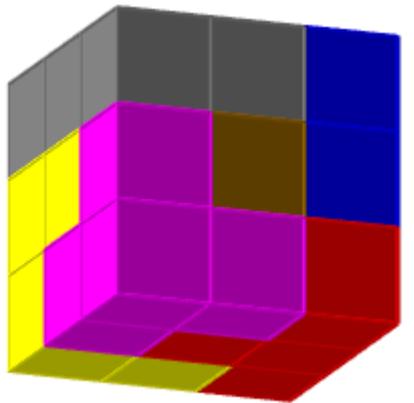
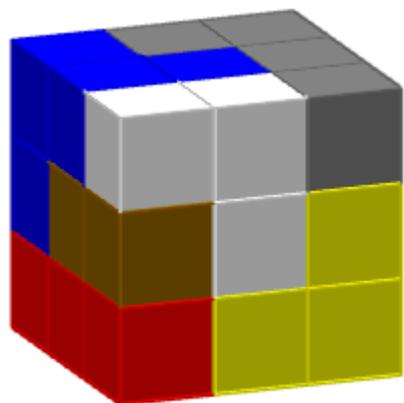
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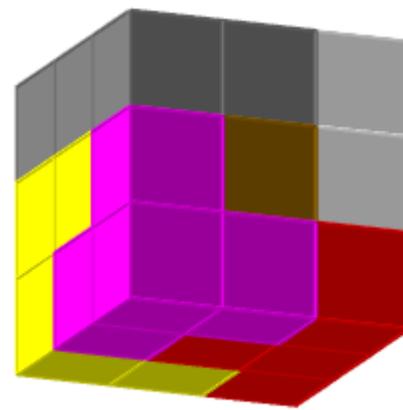
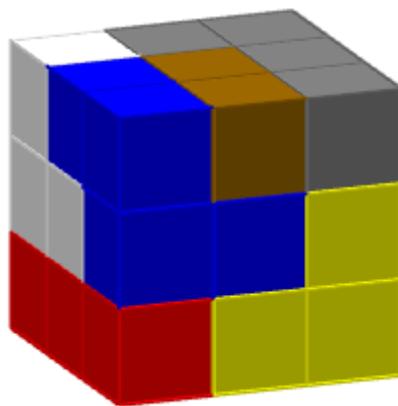
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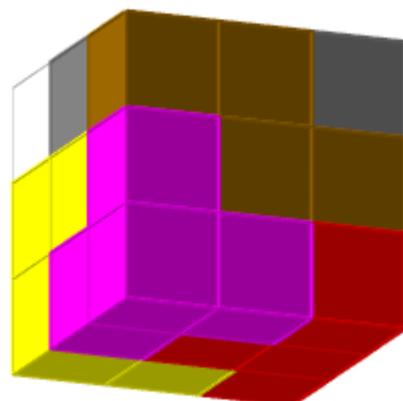
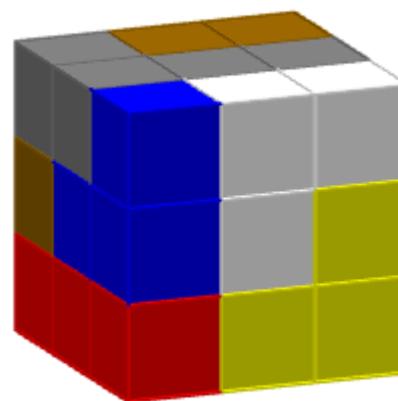
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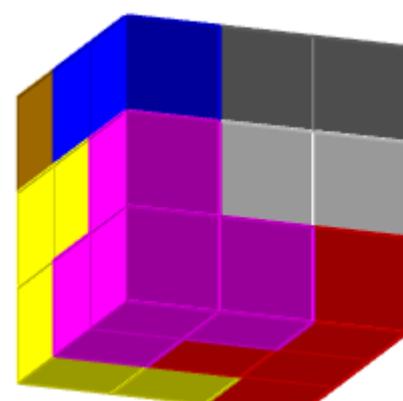
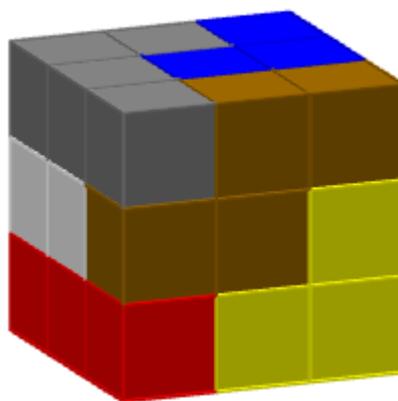
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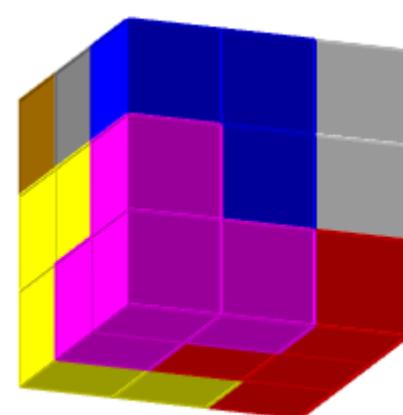
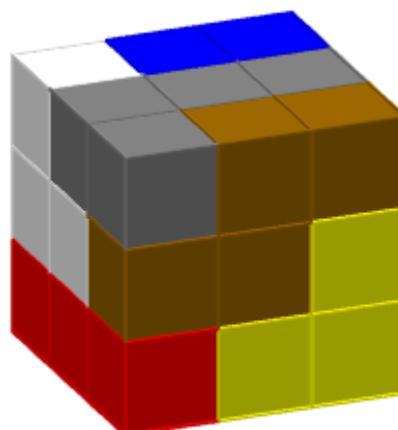


Solutions

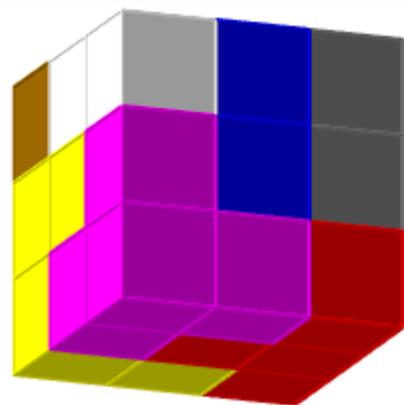
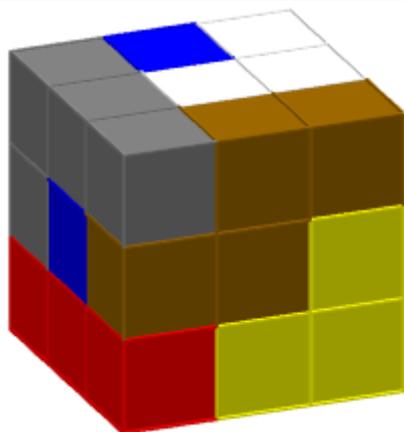
Vue de face-dessus

Vue de dos-dessous

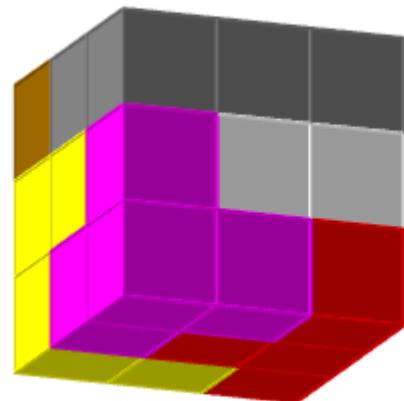
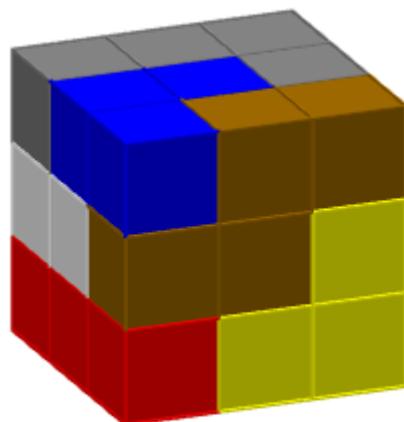
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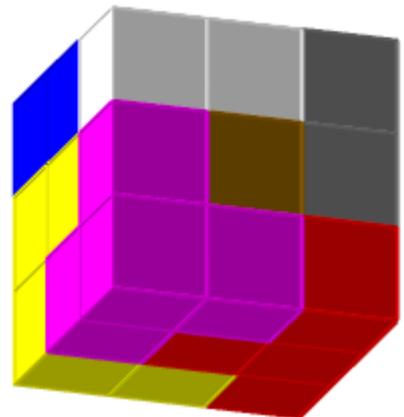
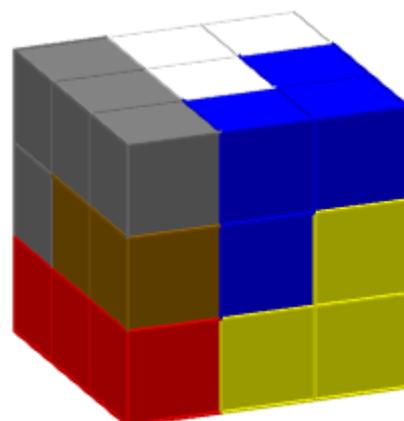
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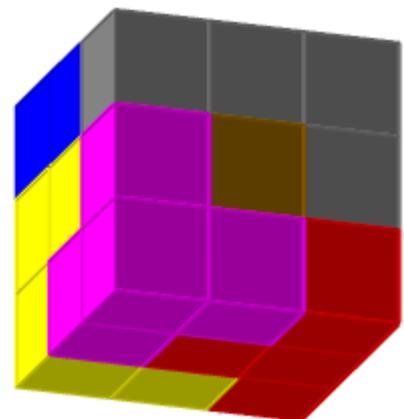
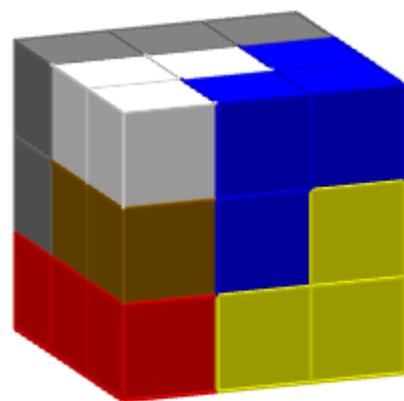
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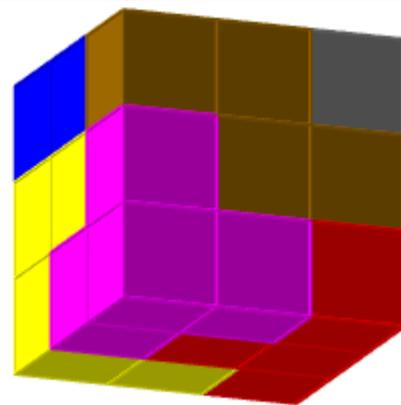
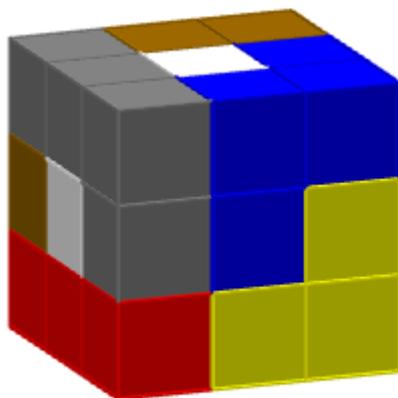
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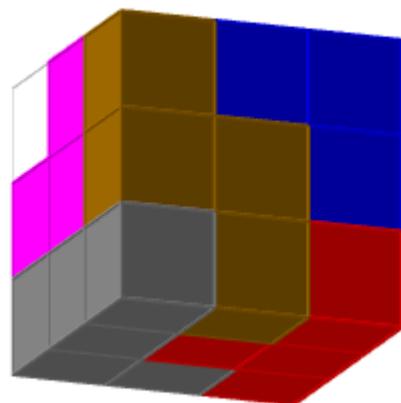
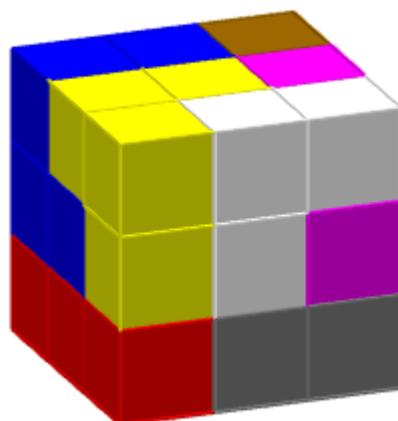
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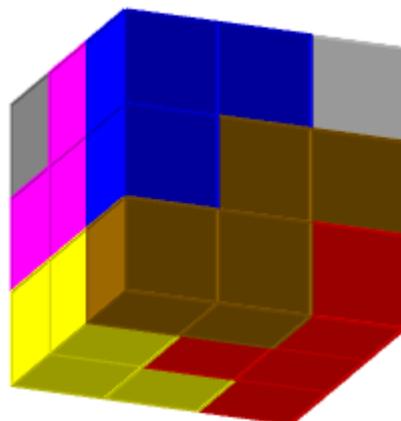
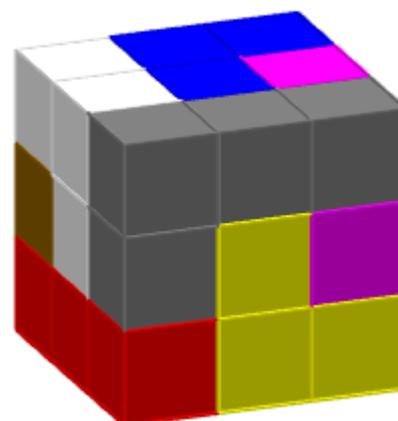
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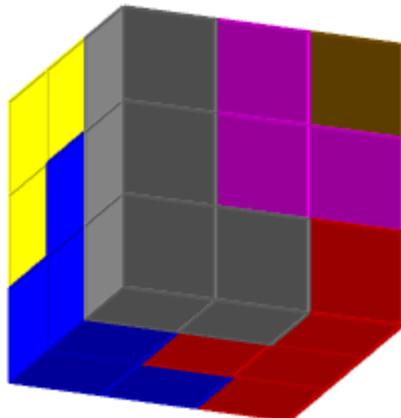
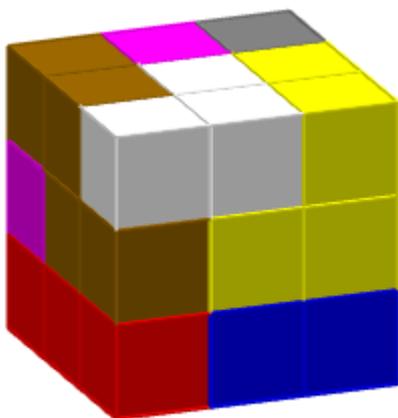
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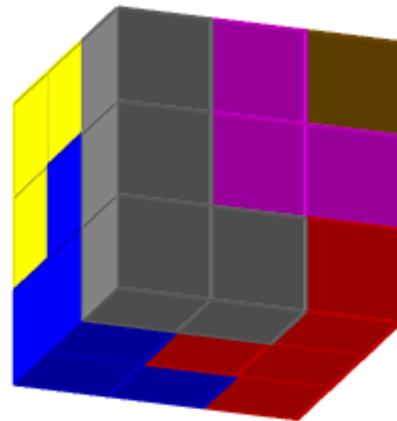
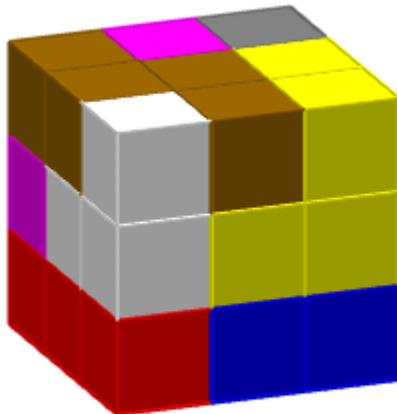
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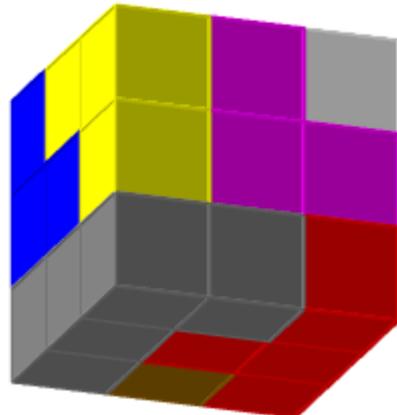
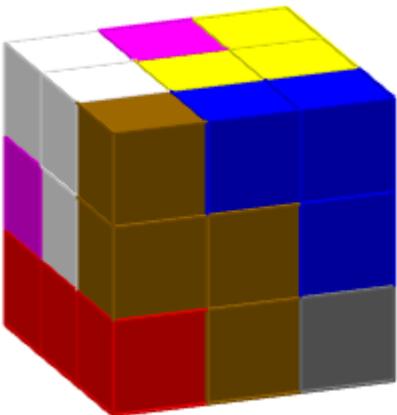
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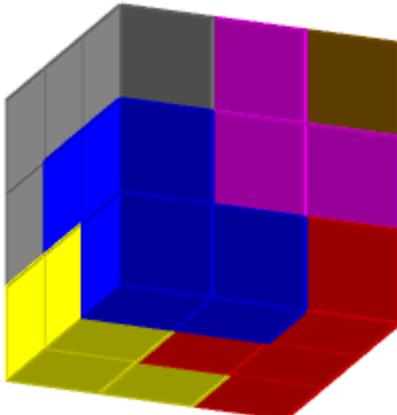
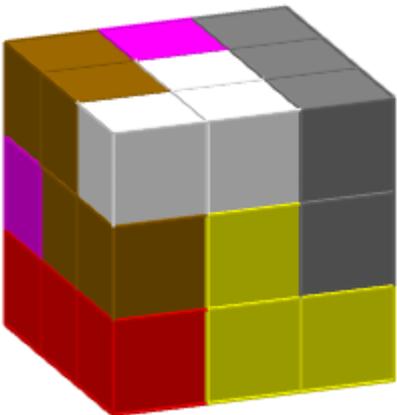
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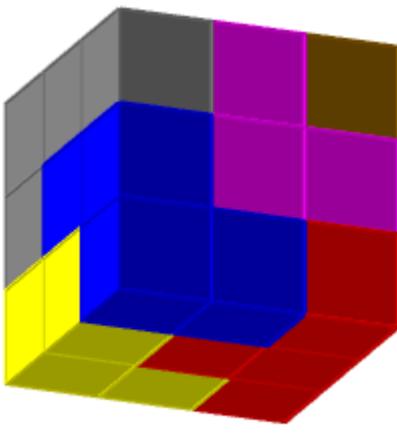
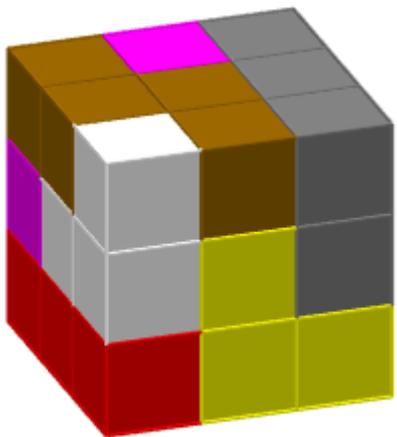
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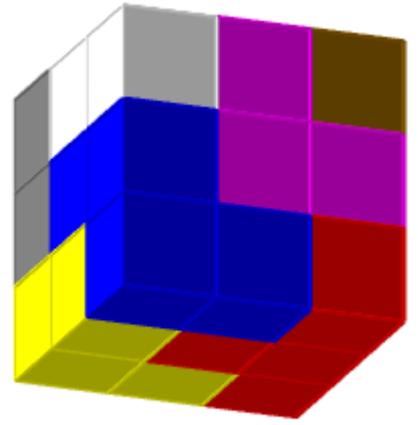
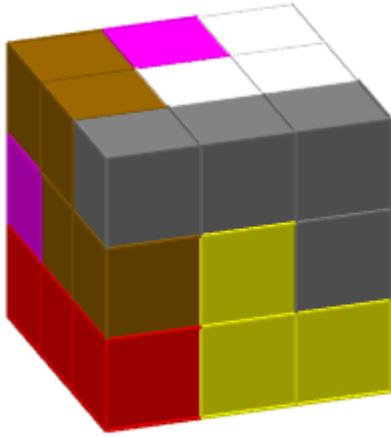
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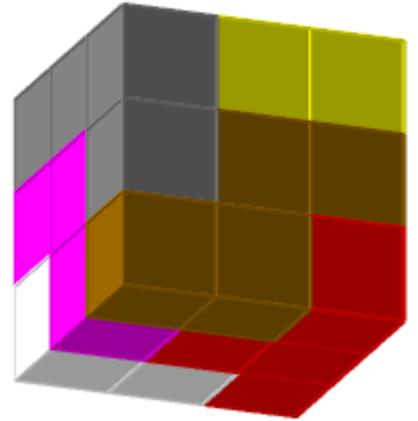
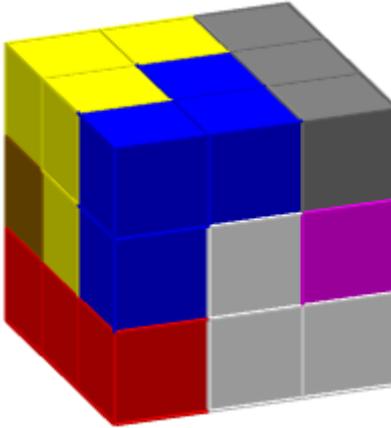
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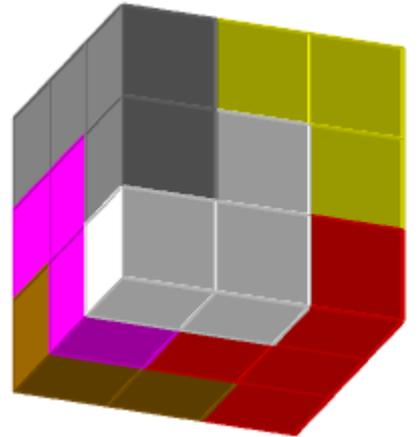
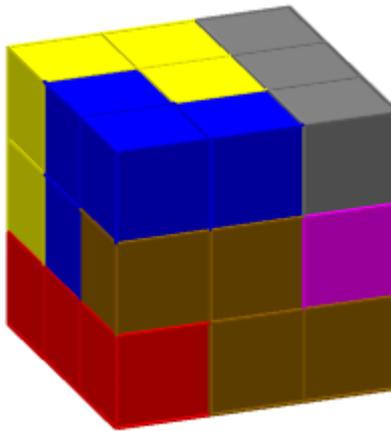
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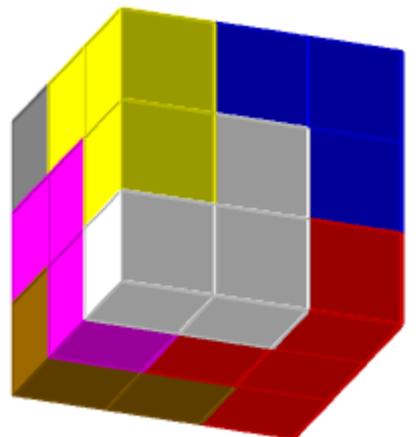
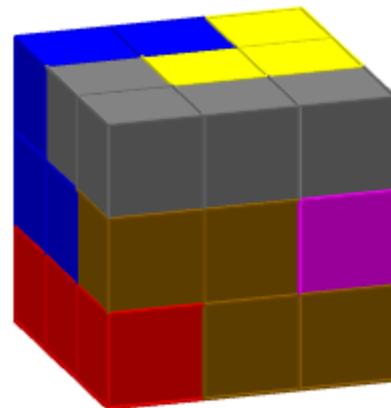
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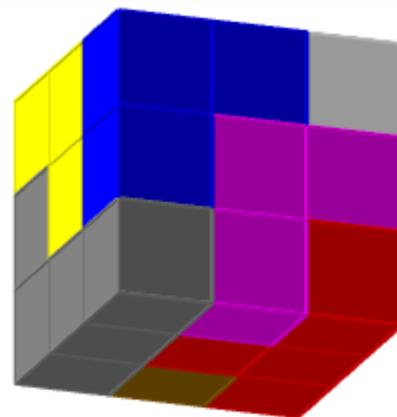
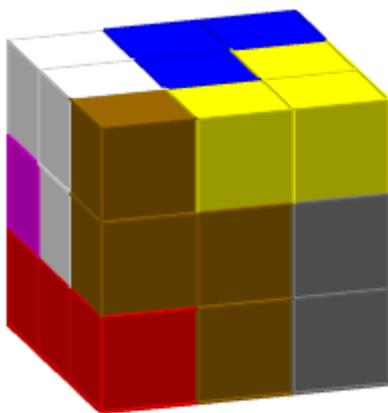
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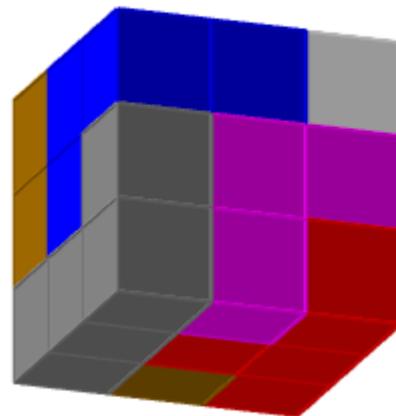
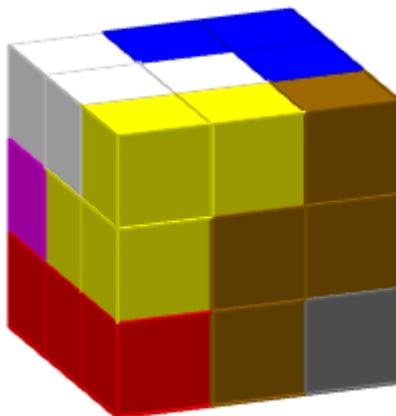
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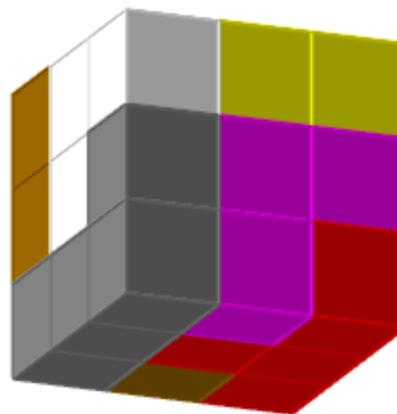
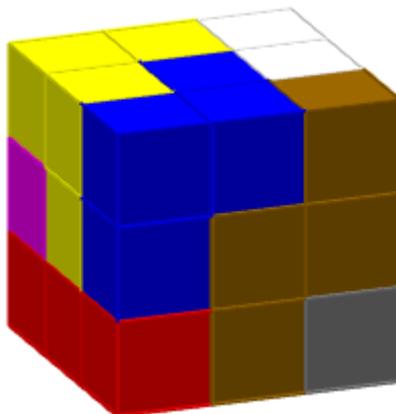
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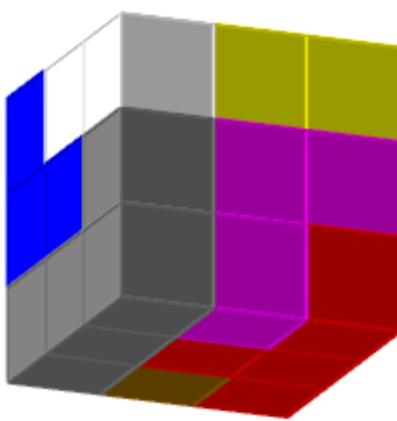
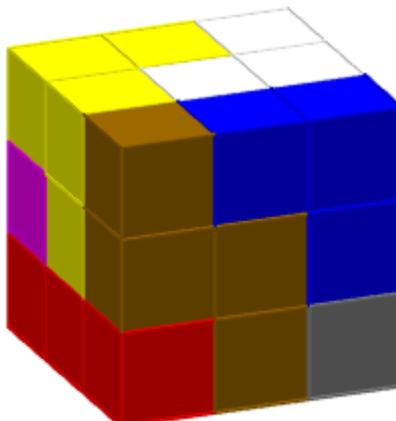
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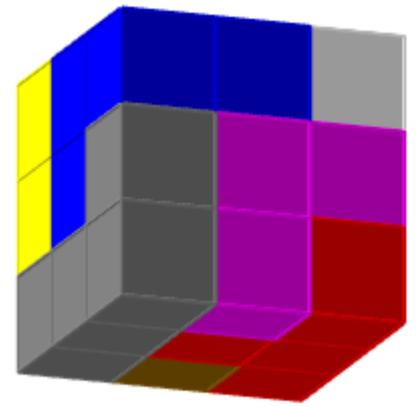
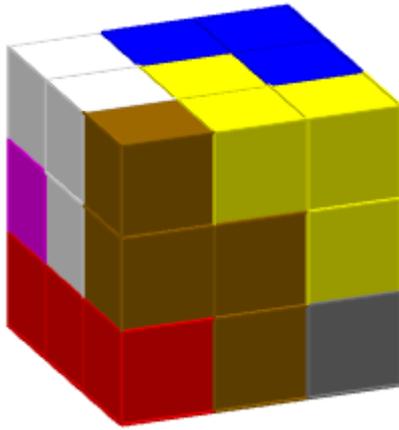
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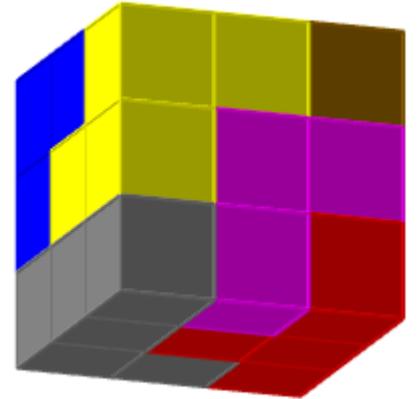
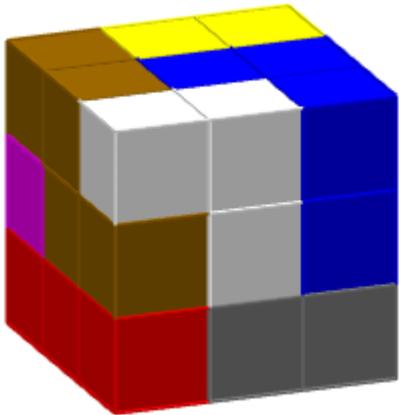
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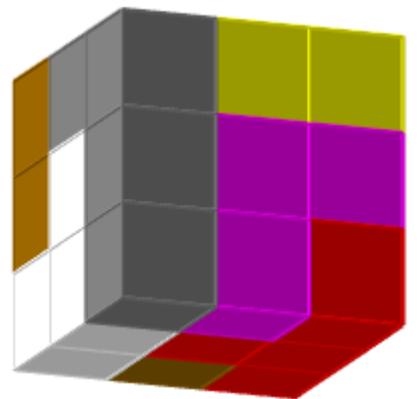
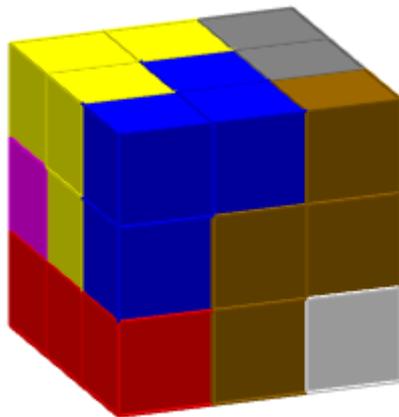
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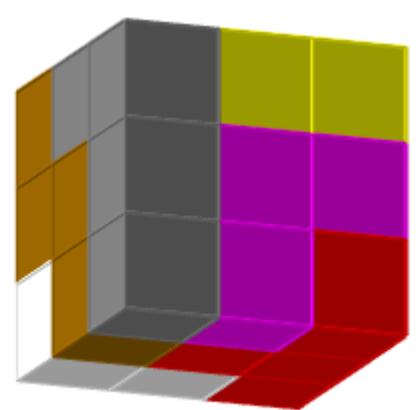
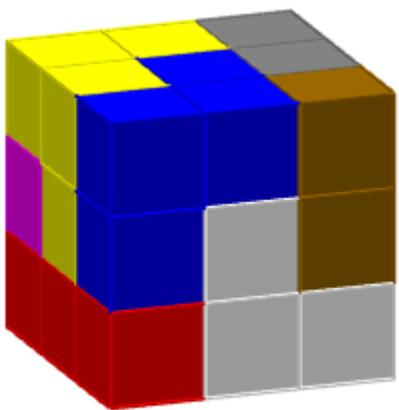
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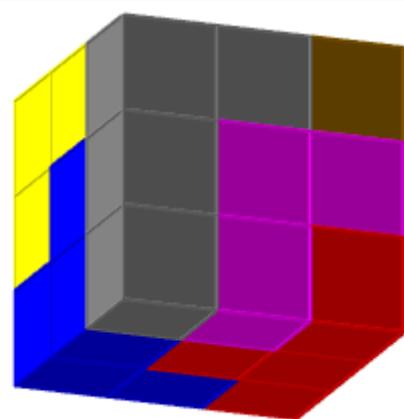
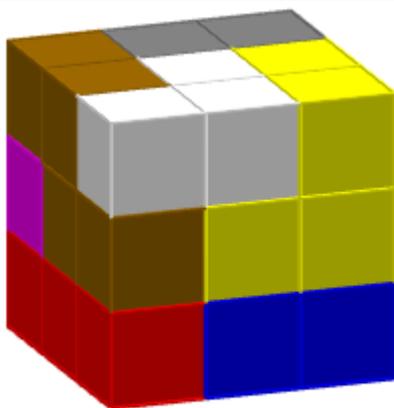
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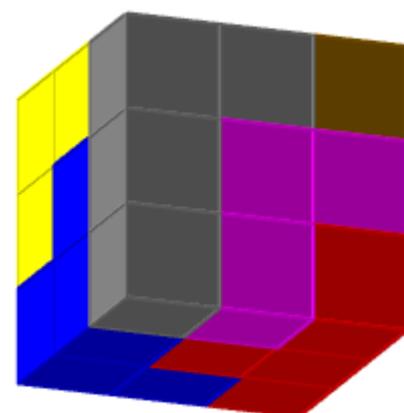
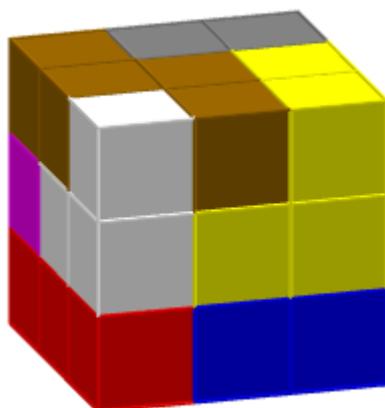
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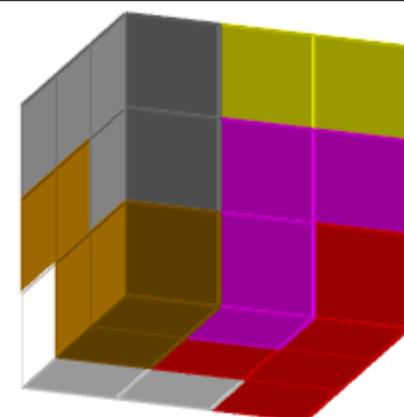
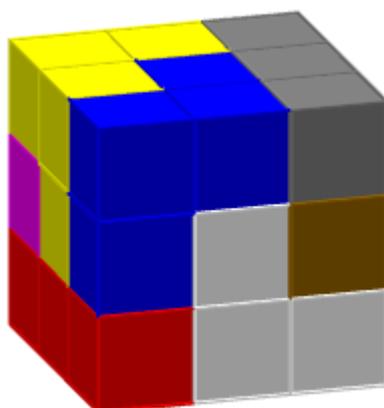
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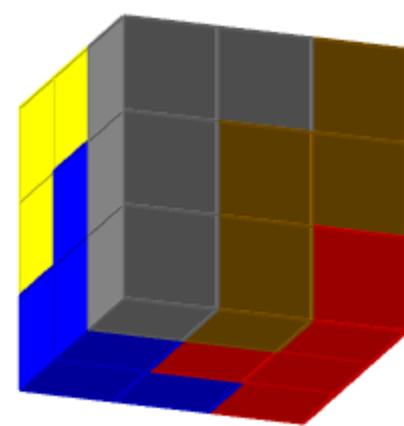
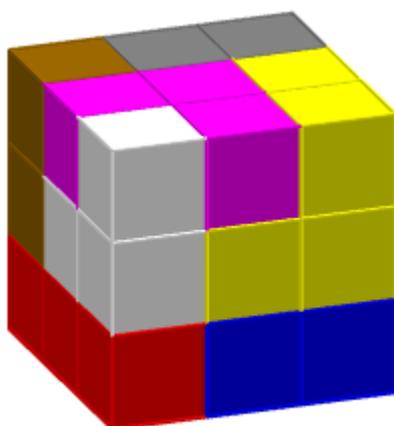
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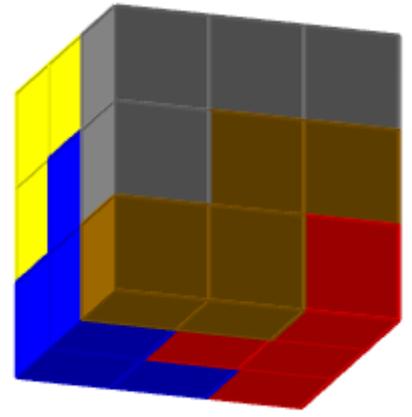
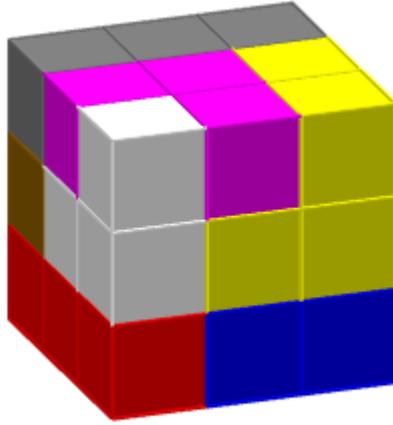
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179



180



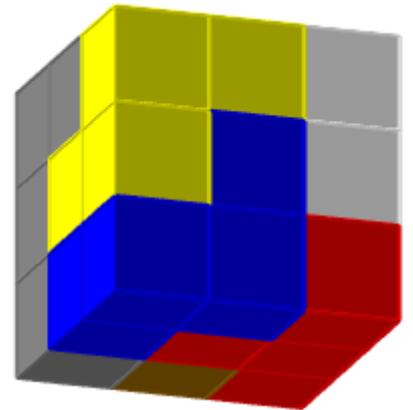
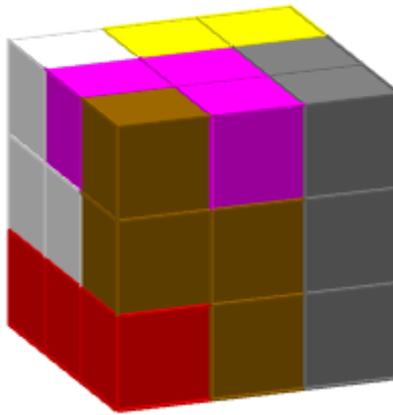
Solutions

Vue de face-dessus

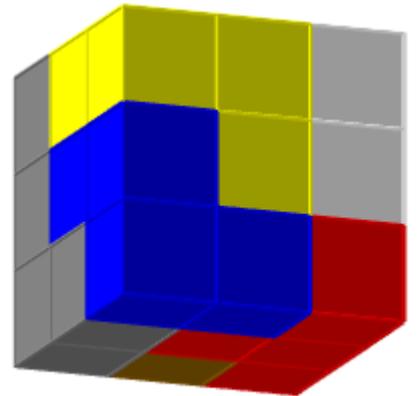
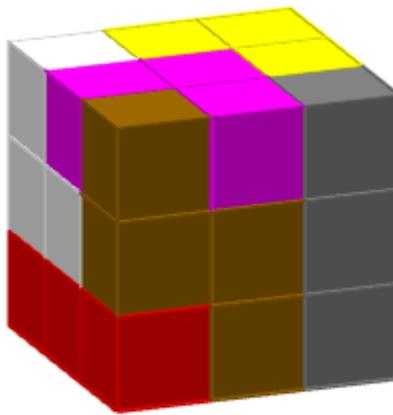
Vue de dos-dessous

181-183 rouge bas gauche et rose milieu face du dessus184-210 rouge bas gauche Rose angle haut droit fond.

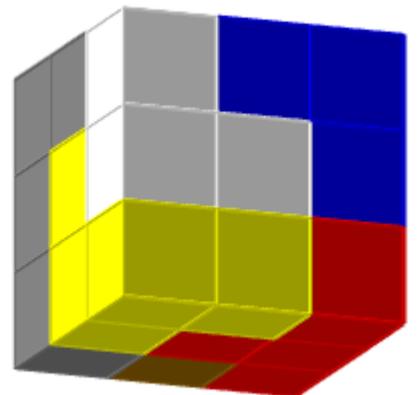
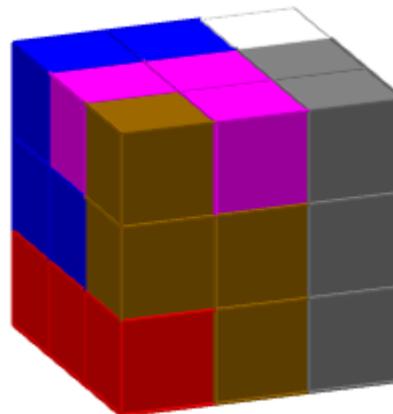
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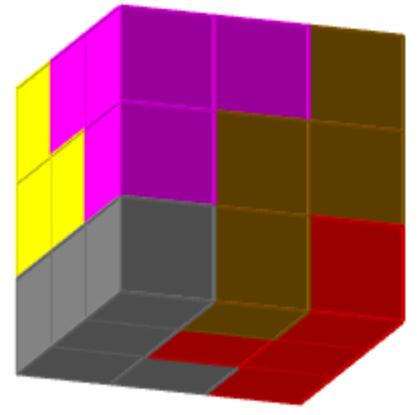
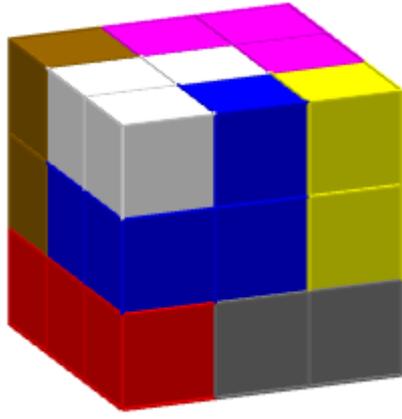
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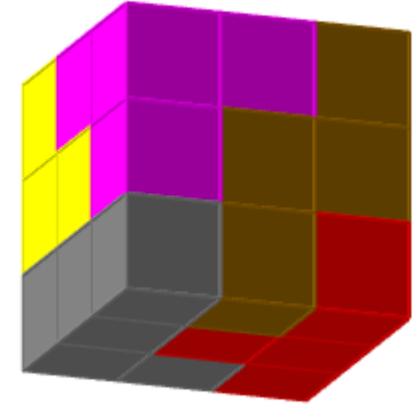
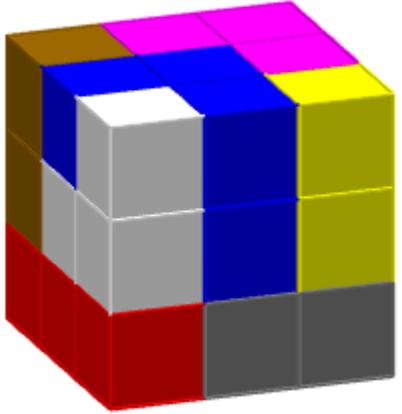
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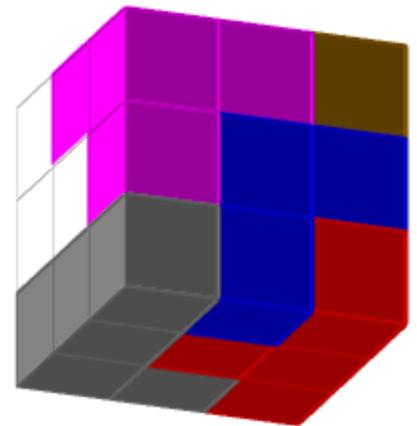
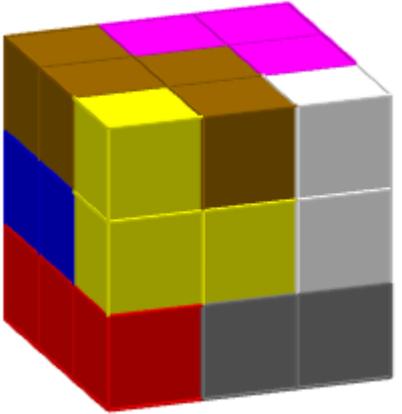
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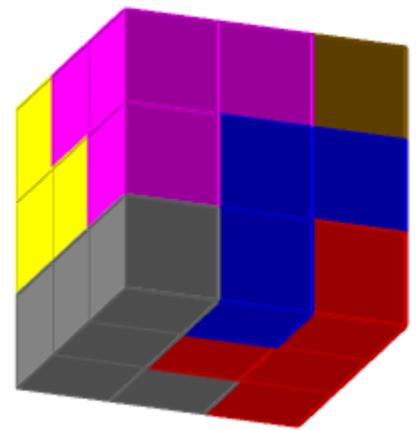
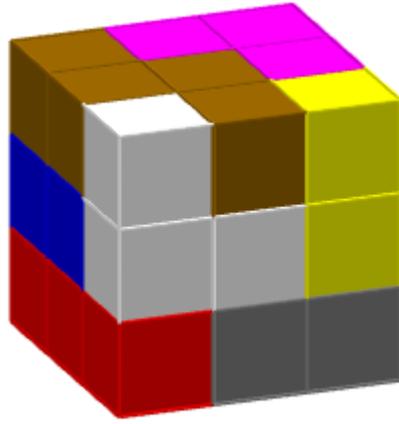
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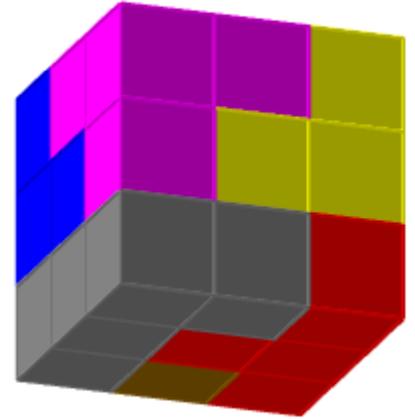
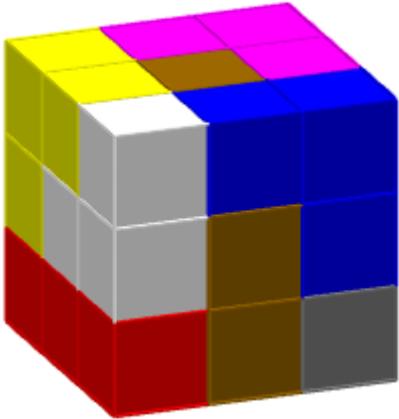
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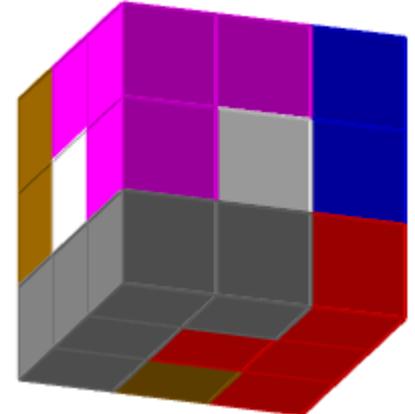
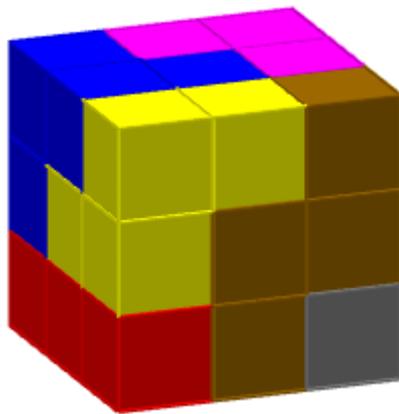
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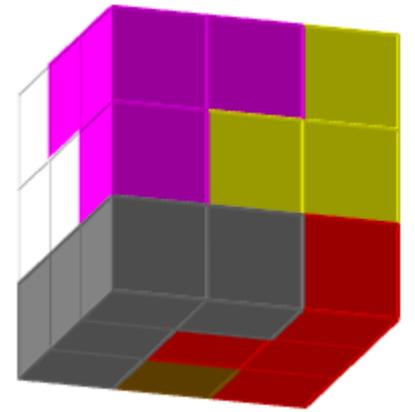
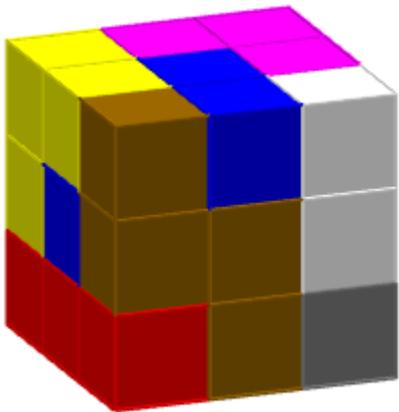
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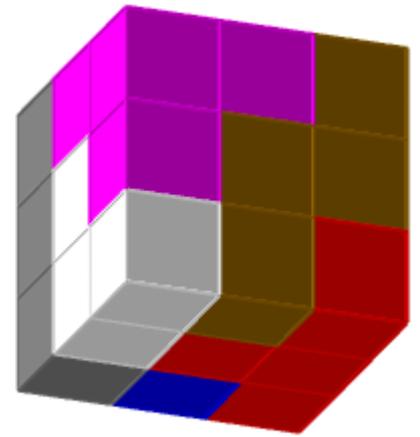
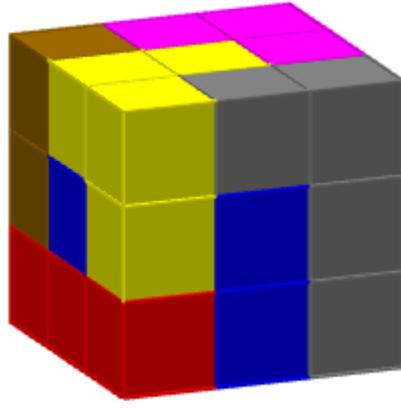
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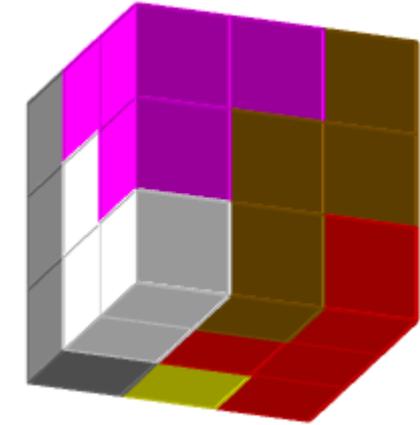
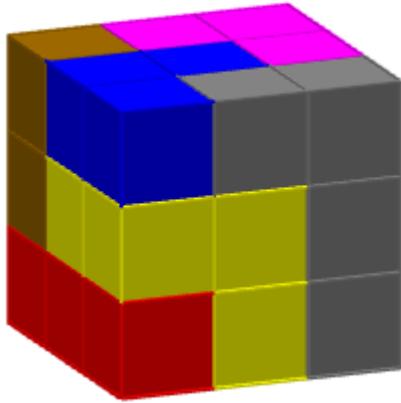
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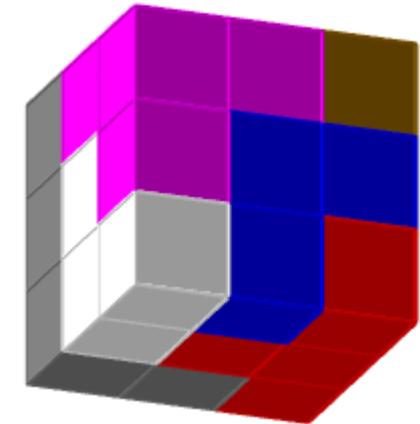
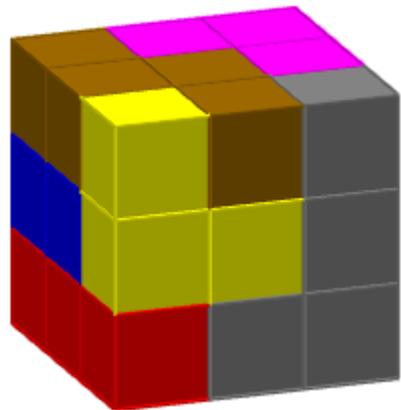
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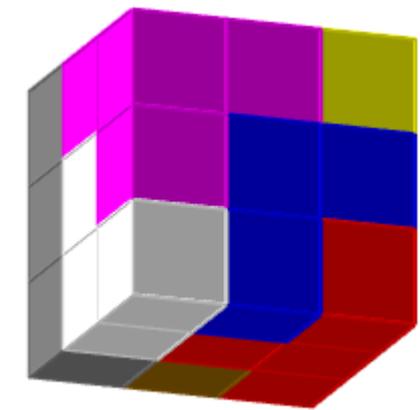
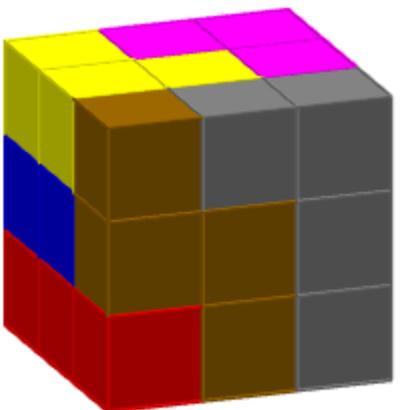
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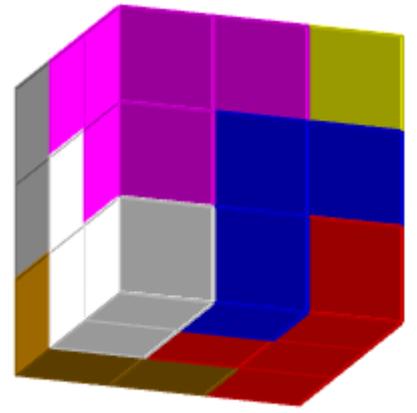
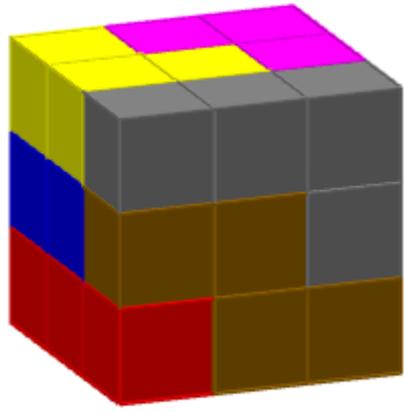
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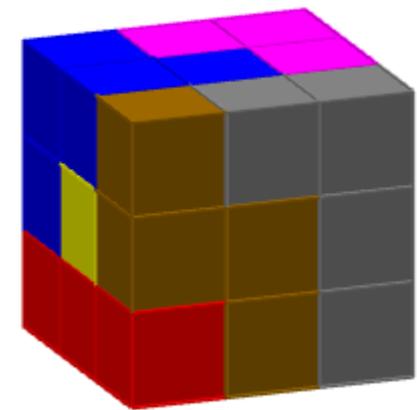
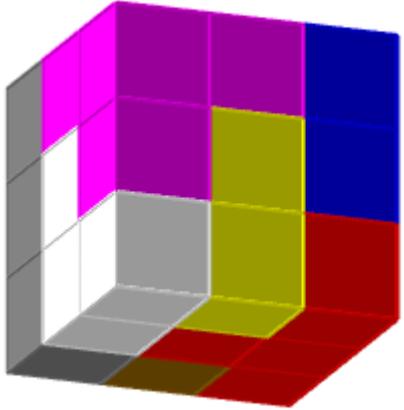
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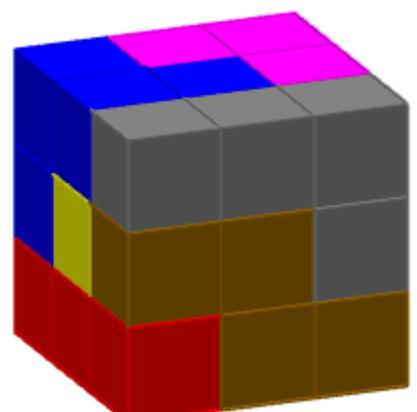
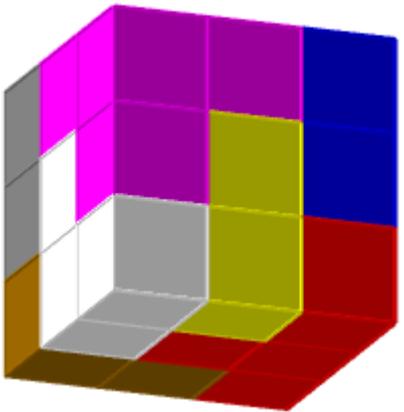
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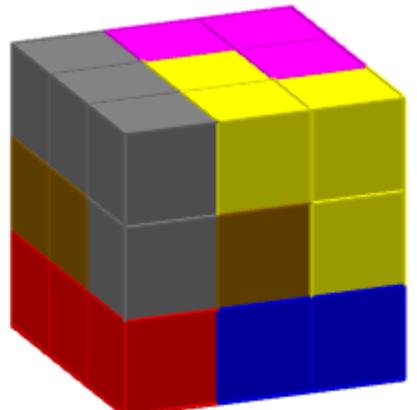
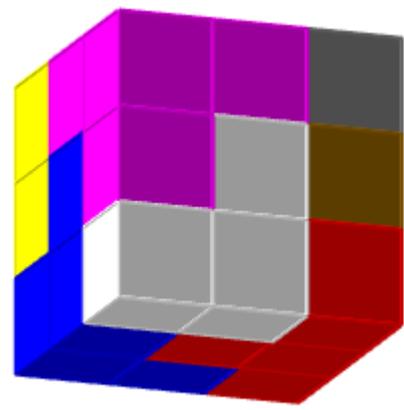
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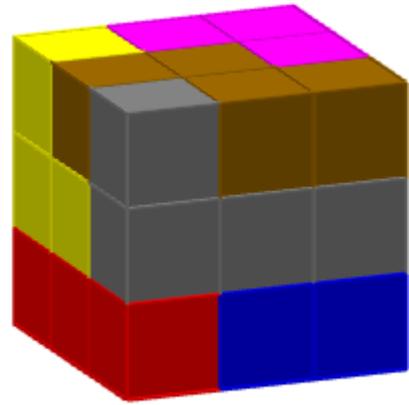
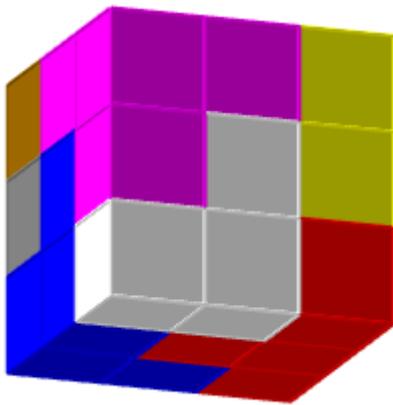
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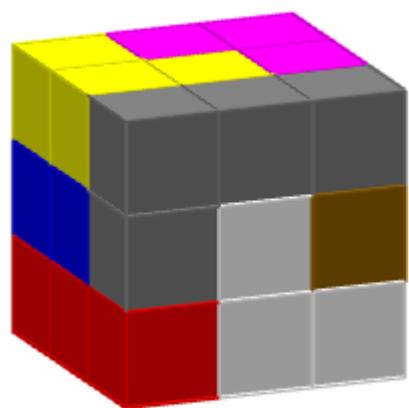
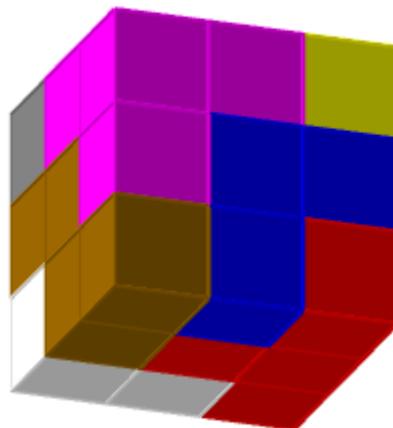
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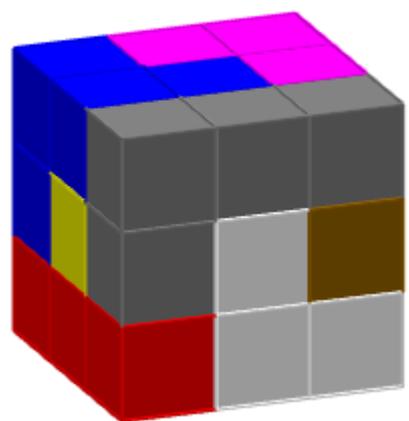
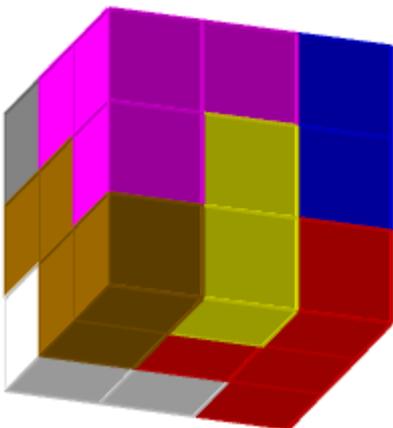
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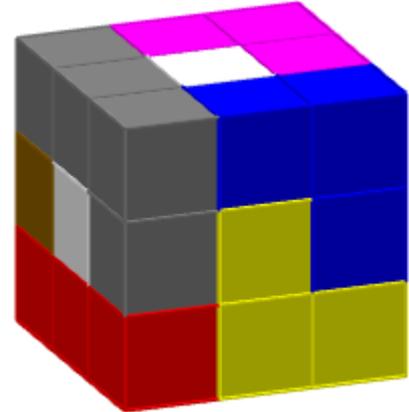
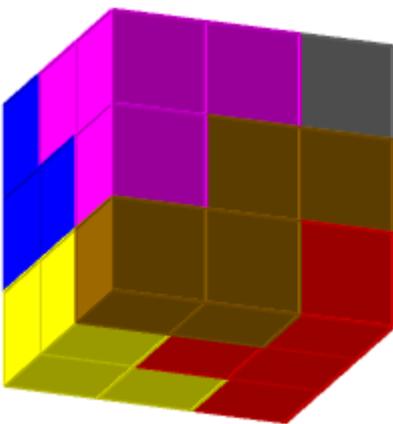
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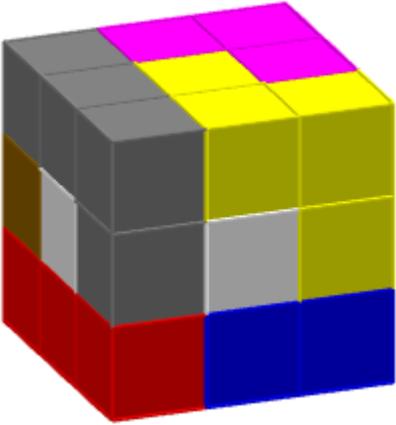
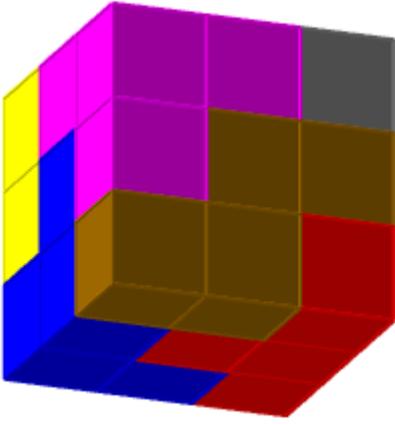
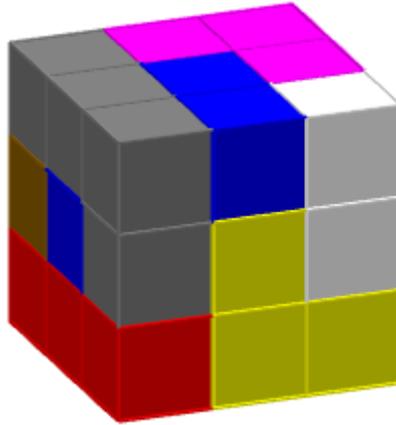
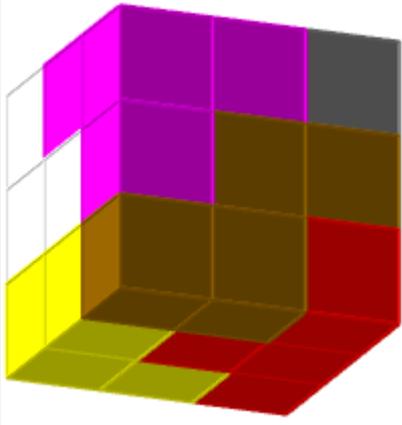
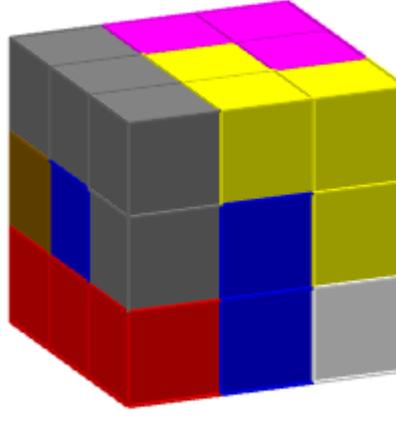
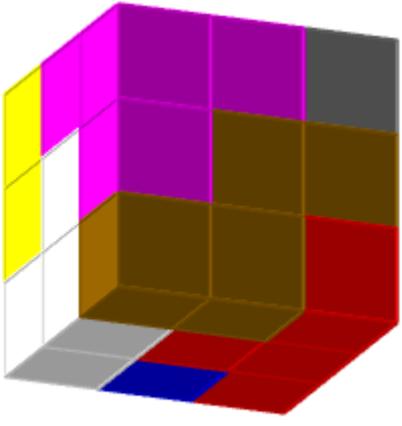


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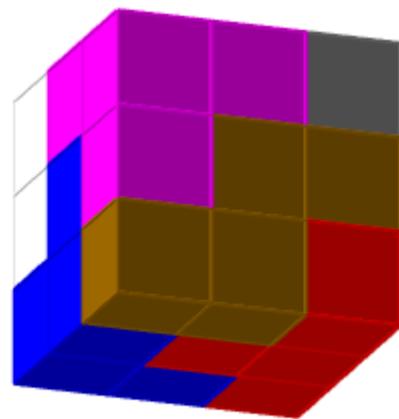
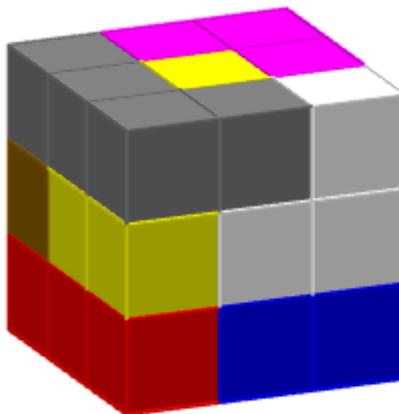


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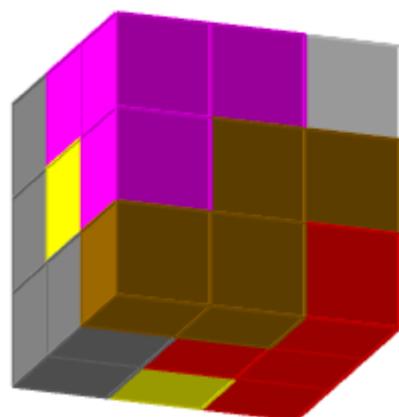
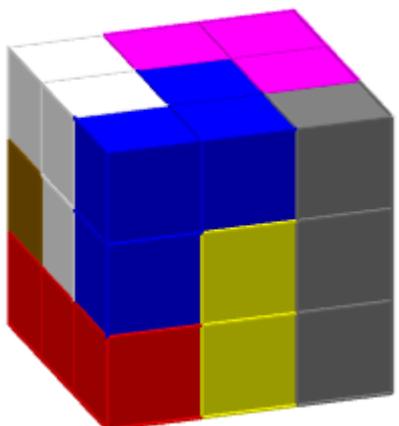


Solutions	Vue de face-dessus	Vue de dos-dessous
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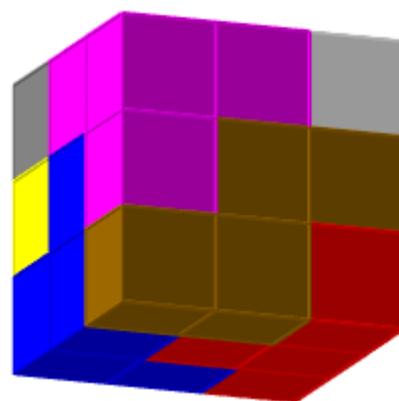
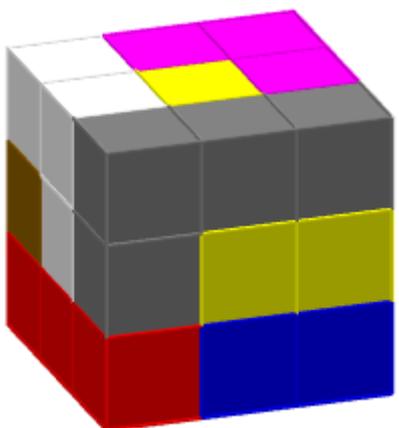
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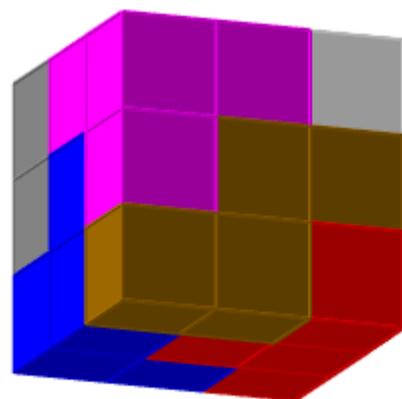
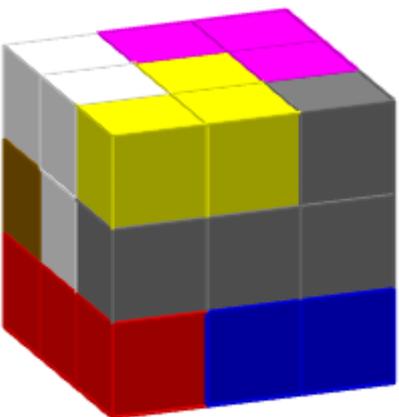
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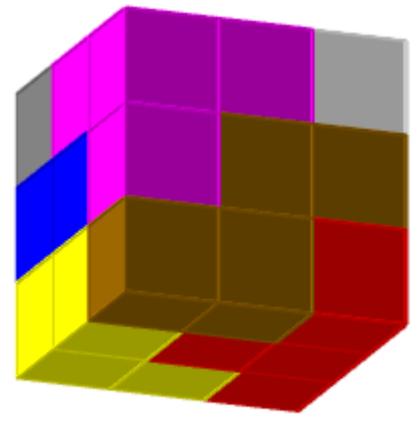
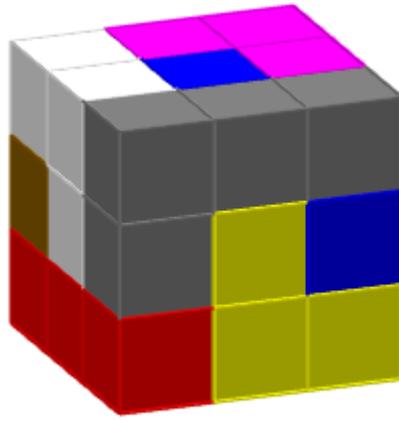
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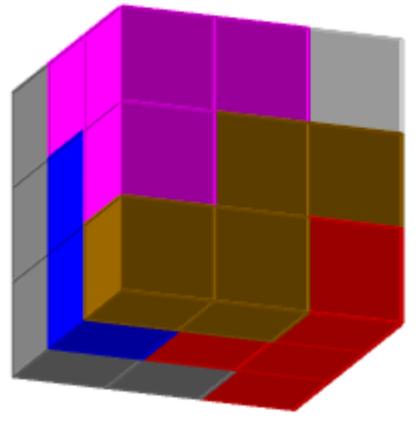
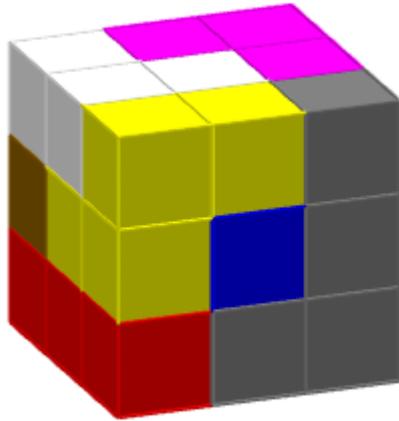
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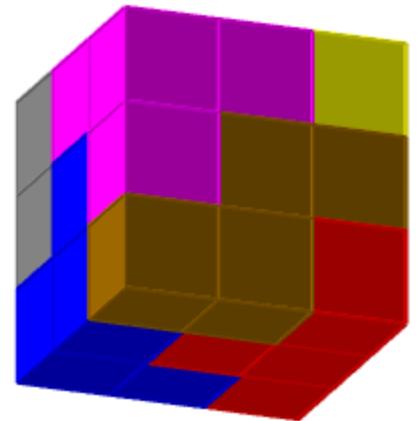
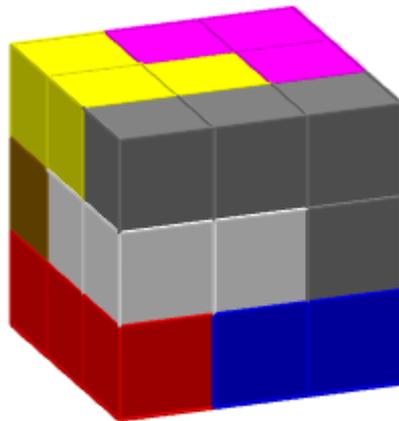
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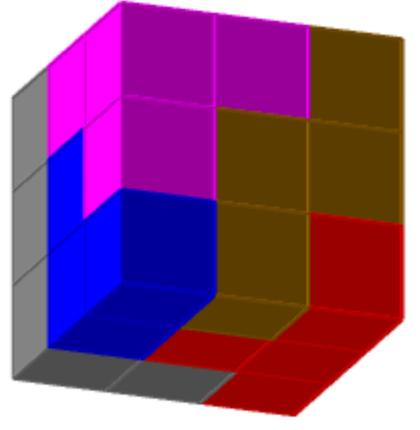
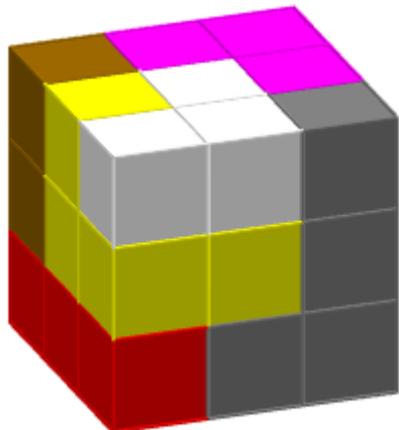
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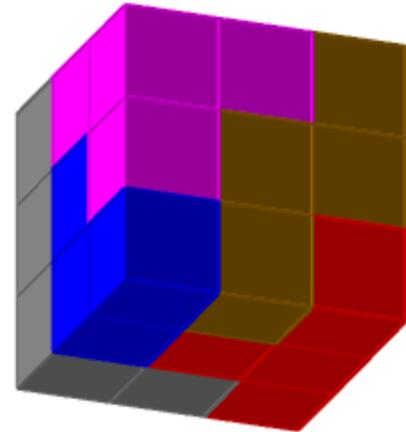
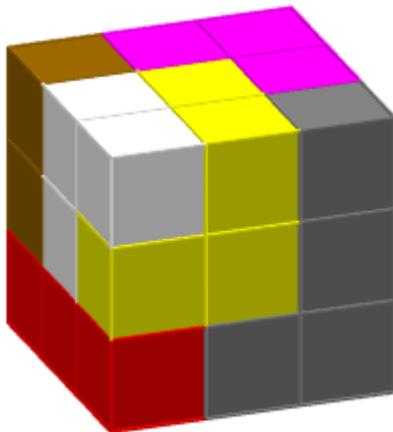
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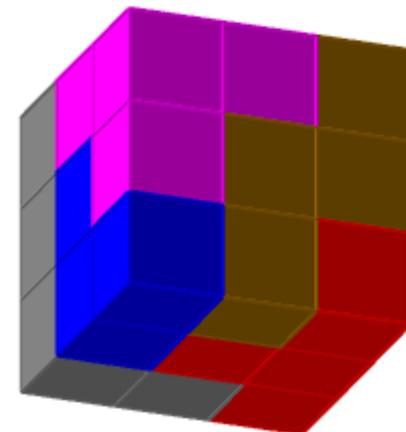
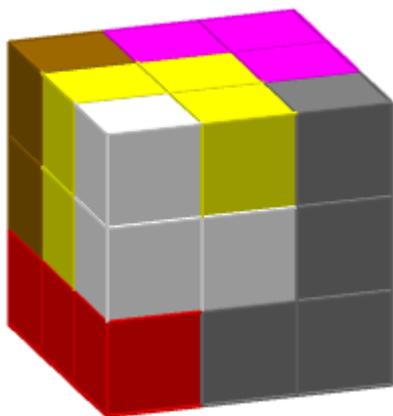
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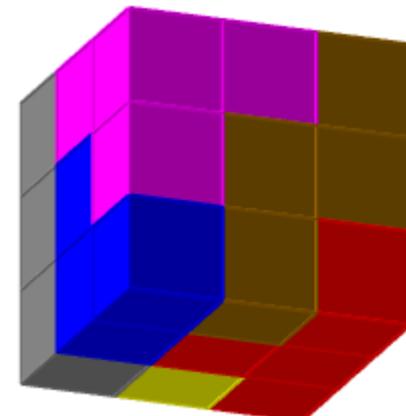
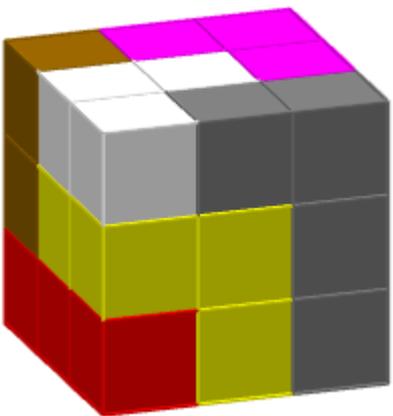
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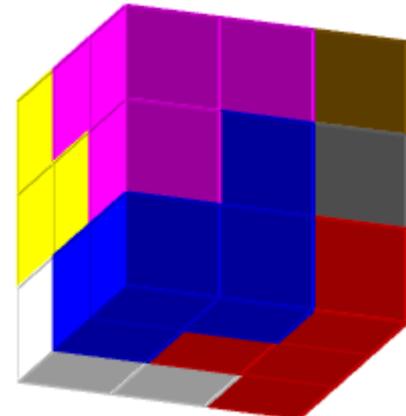
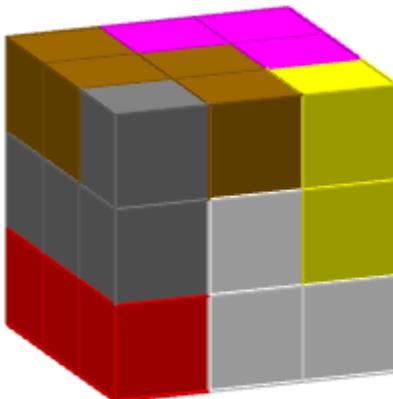
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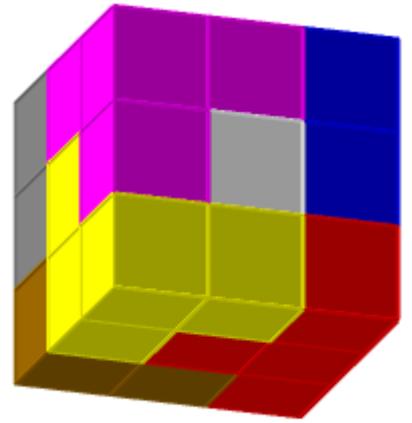
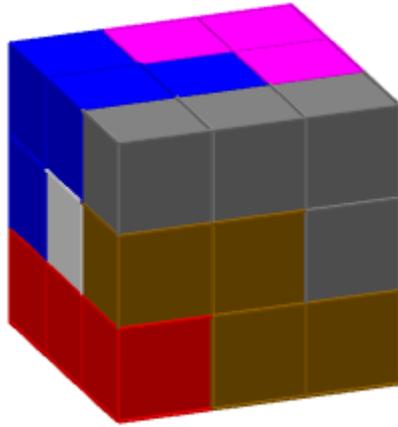
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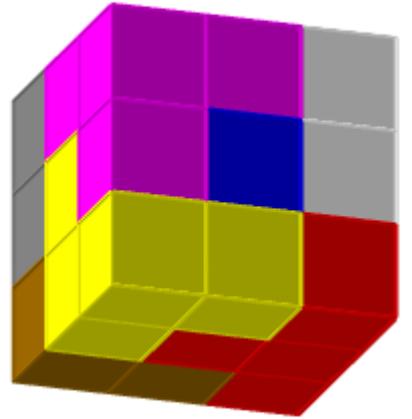
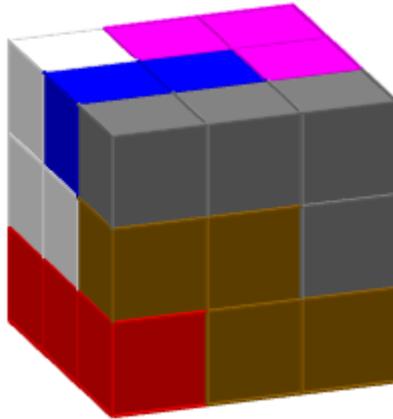
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238



239



240

