

## Der Soma-Würfel

### Was ist ein Soma-Würfel?

Aus mehreren, unterschiedlichen Teilen soll ein Würfel entstehen.

Es gibt 240 verschiedene Möglichkeiten den Würfel zusammen zu stellen. Eine Musterlösung gibt es also nicht. Der Soma-Würfel besteht aus 27 Einzelwürfeln.  $1 \times 3 + 6 \times 4$ .

Ziel ist es aus diesen 7 verschiedenen Steinen, einen  $3 \times 3 \times 3$  Würfel zusammen zu bauen. Man kann aber auch andere Figuren damit zusammensetzen.

### Wie entstand der Soma-Würfel?

Während einer Vorlesung erfand Piet Hein 1936 den Soma-Würfel.

1961 fand man heraus, dass es 240 verschiedene Möglichkeiten gibt, diesen Würfel zusammen zu bauen. In Deutschland wurde der Würfel erst 1967 bekannt.

Heute benutzen ihn viele Schulen im Mathematikunterricht und um die räumliche Vorstellungskraft zu fördern.

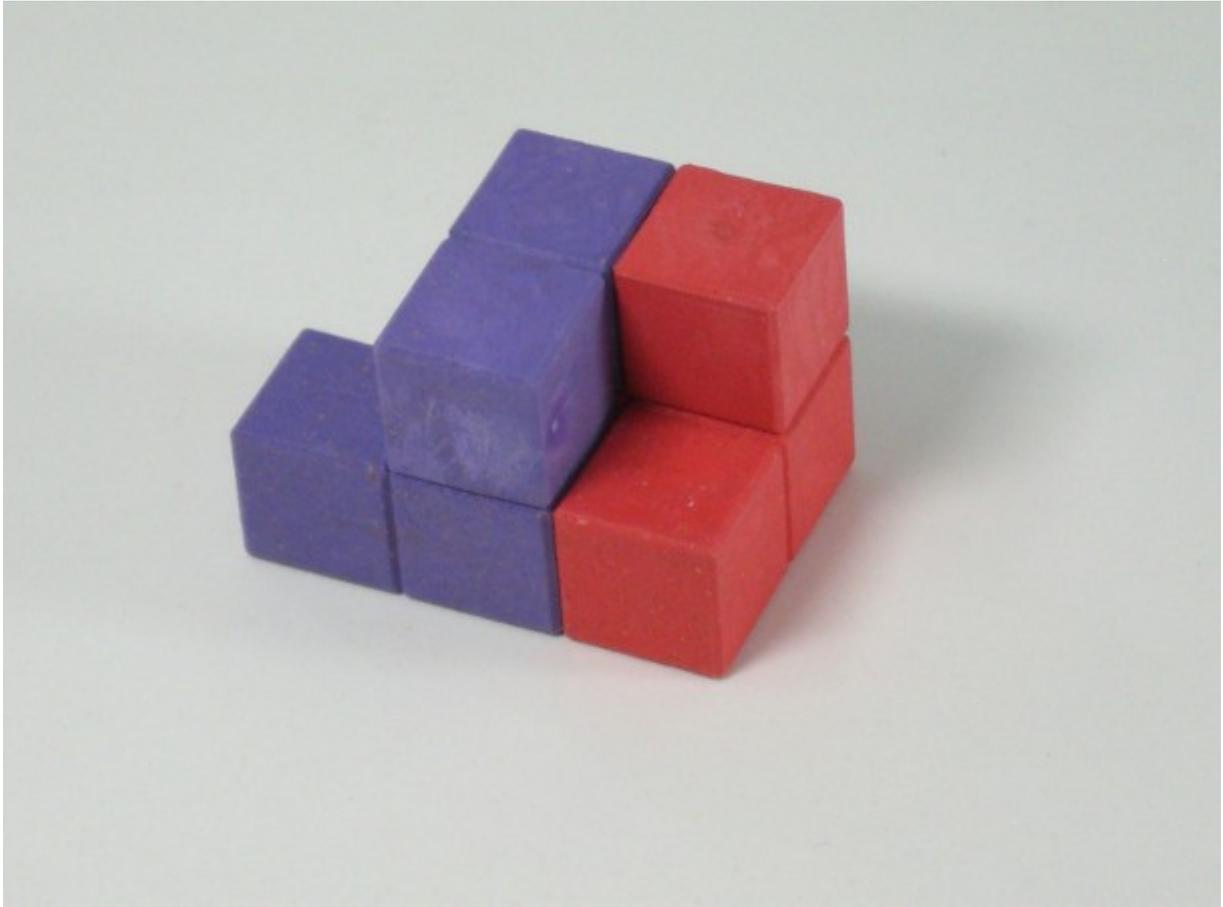
**Dies sind Links zu anderen Seiten die Informationen über den Soma-Würfel bieten:**

<http://www.mathematische-basteleien.de/somawuerfel.htm>

<http://de.wikipedia.org/wiki/Somaw%C3%BCrfel>

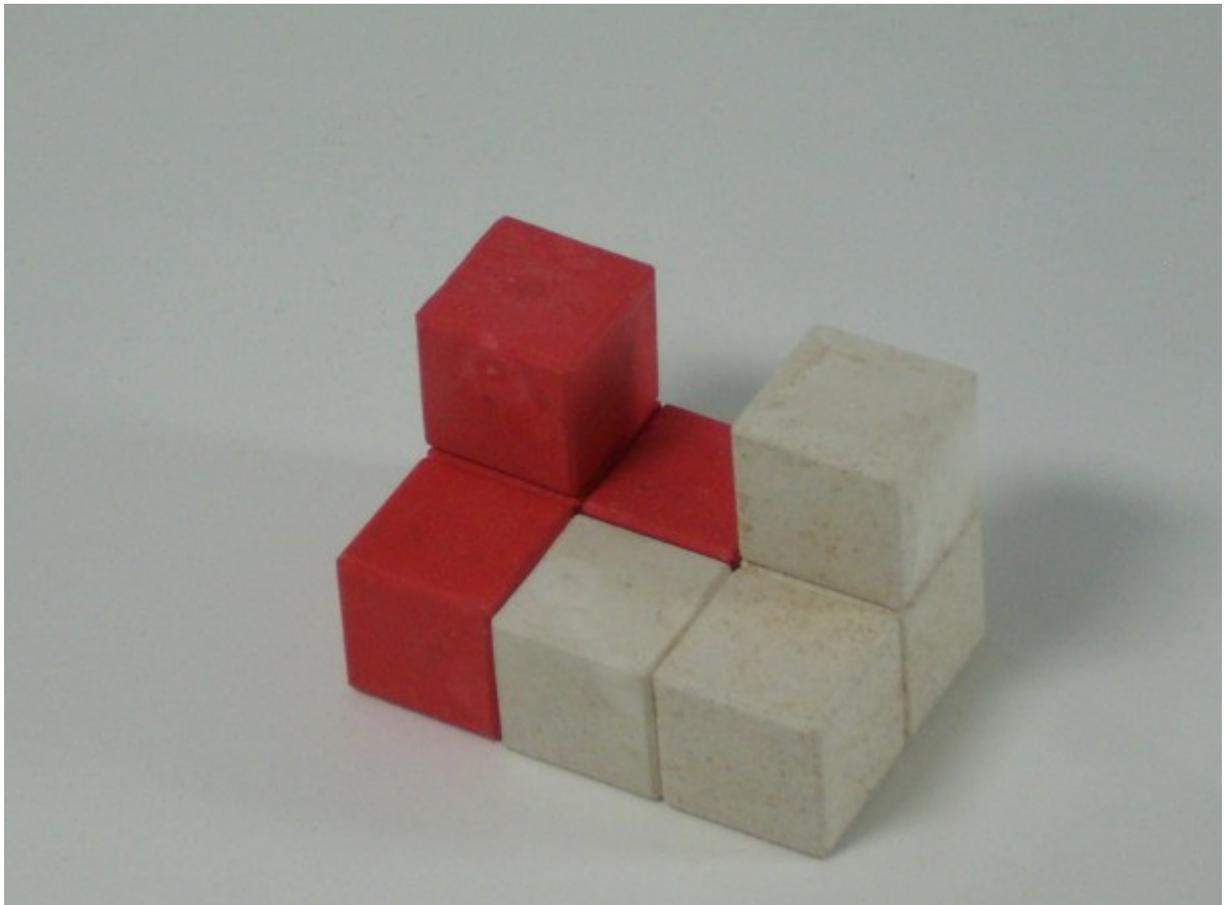
Im Folgenden haben wir Ihnen eine Arbeitskartei mit 63 Aufgaben zum Soma-Würfel beigelegt, mit der verschiedene Figuren nachgebaut werden können. Die Kartei kann nach Belieben schwarz-weiß oder farbig ausgedruckt werden. Die Aufgaben sind beim farbigen Ausdruck einfacher, beim schwarz-weiß Ausdruck schwerer zu lösen.

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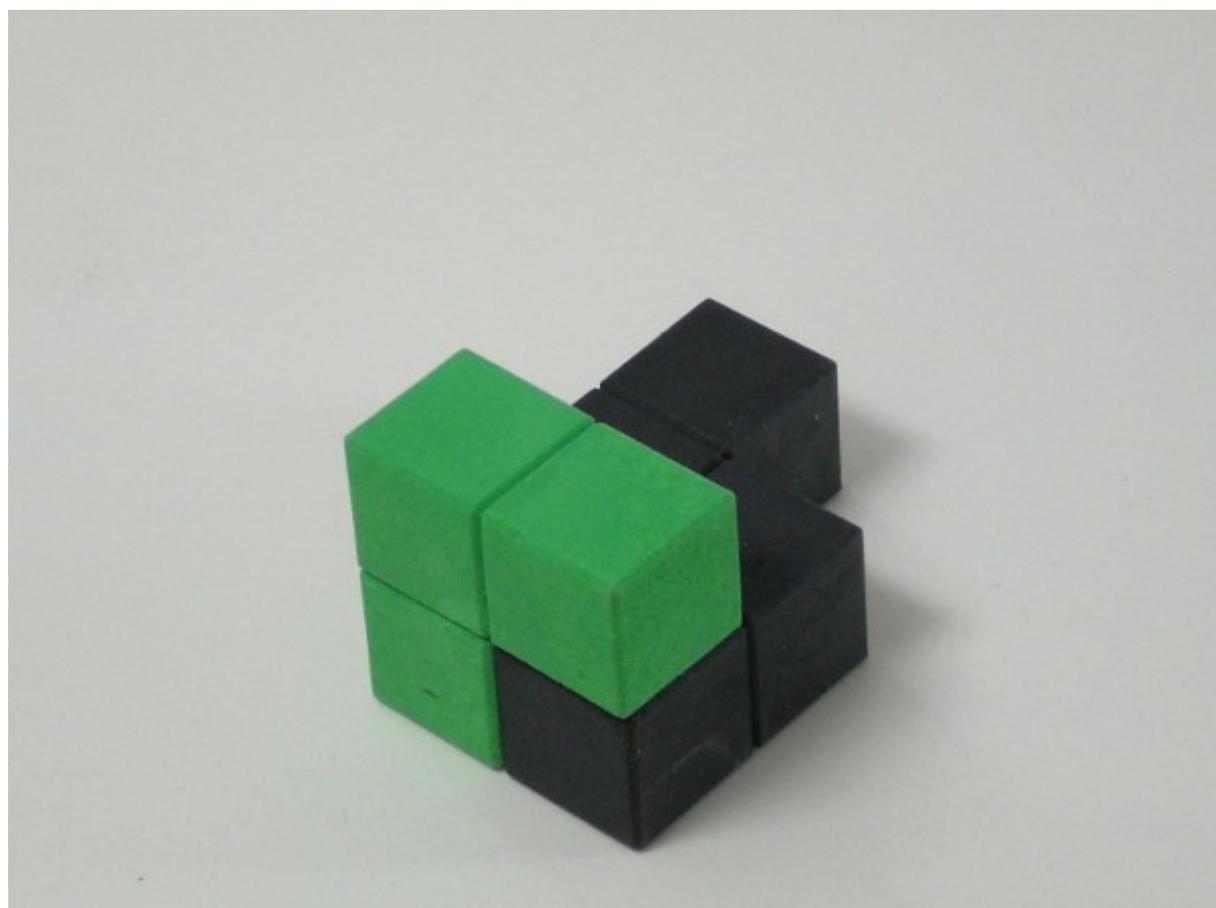
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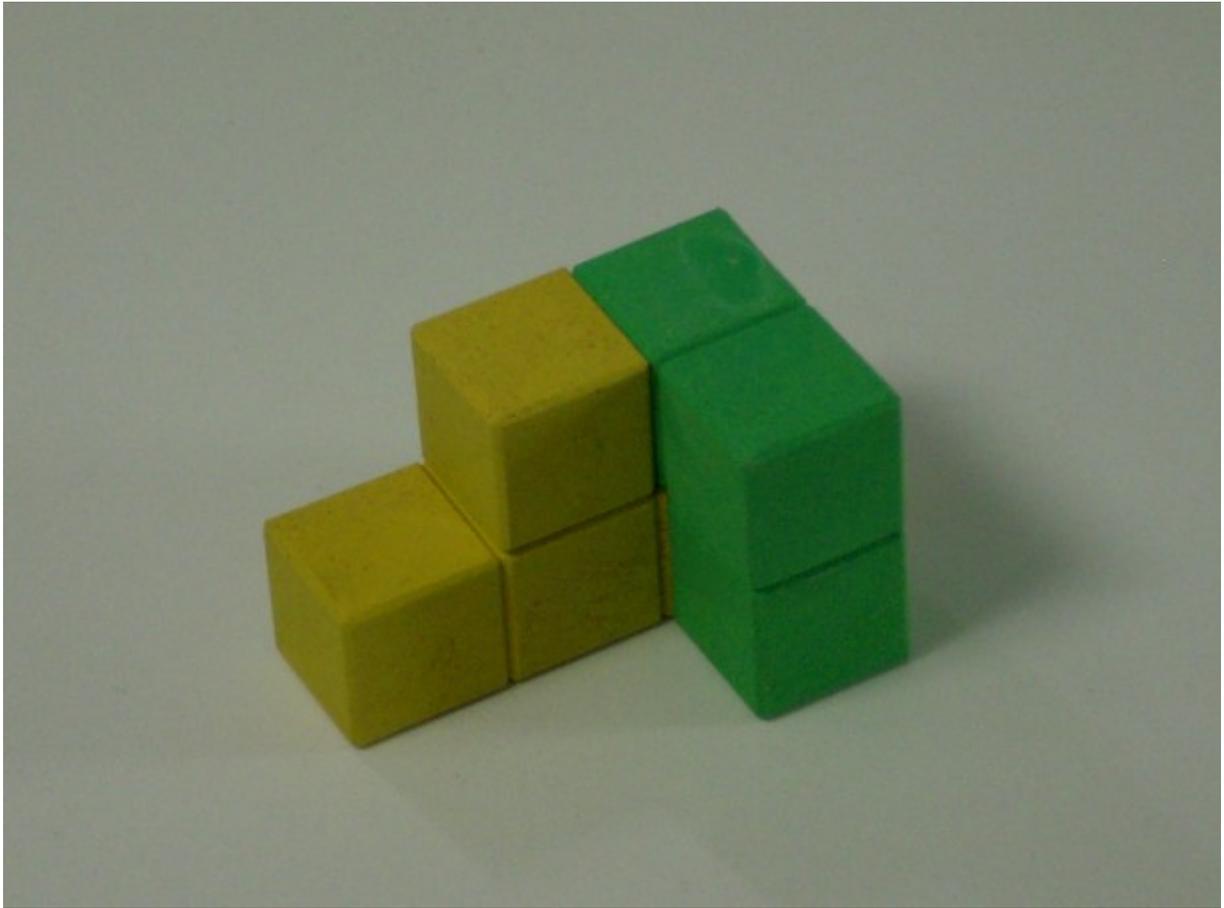
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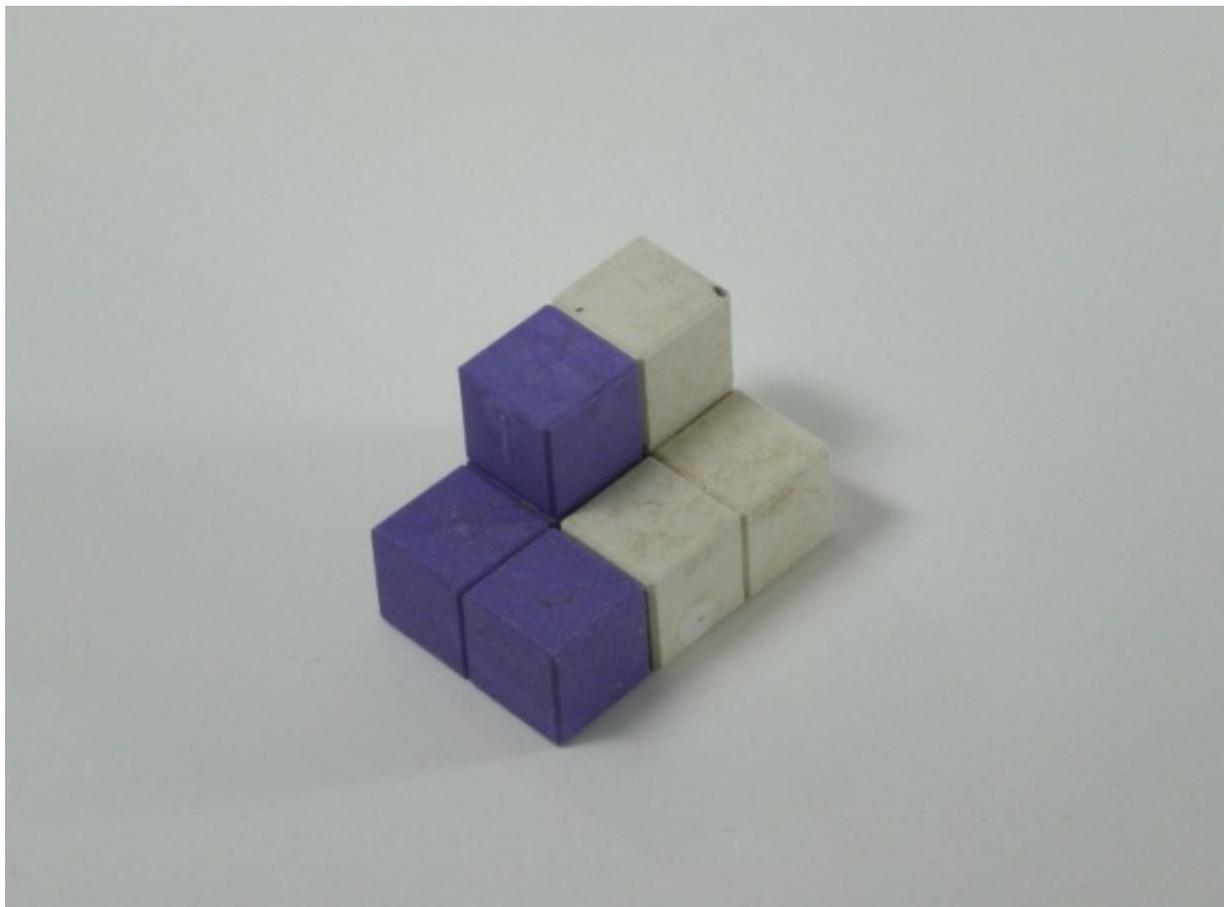
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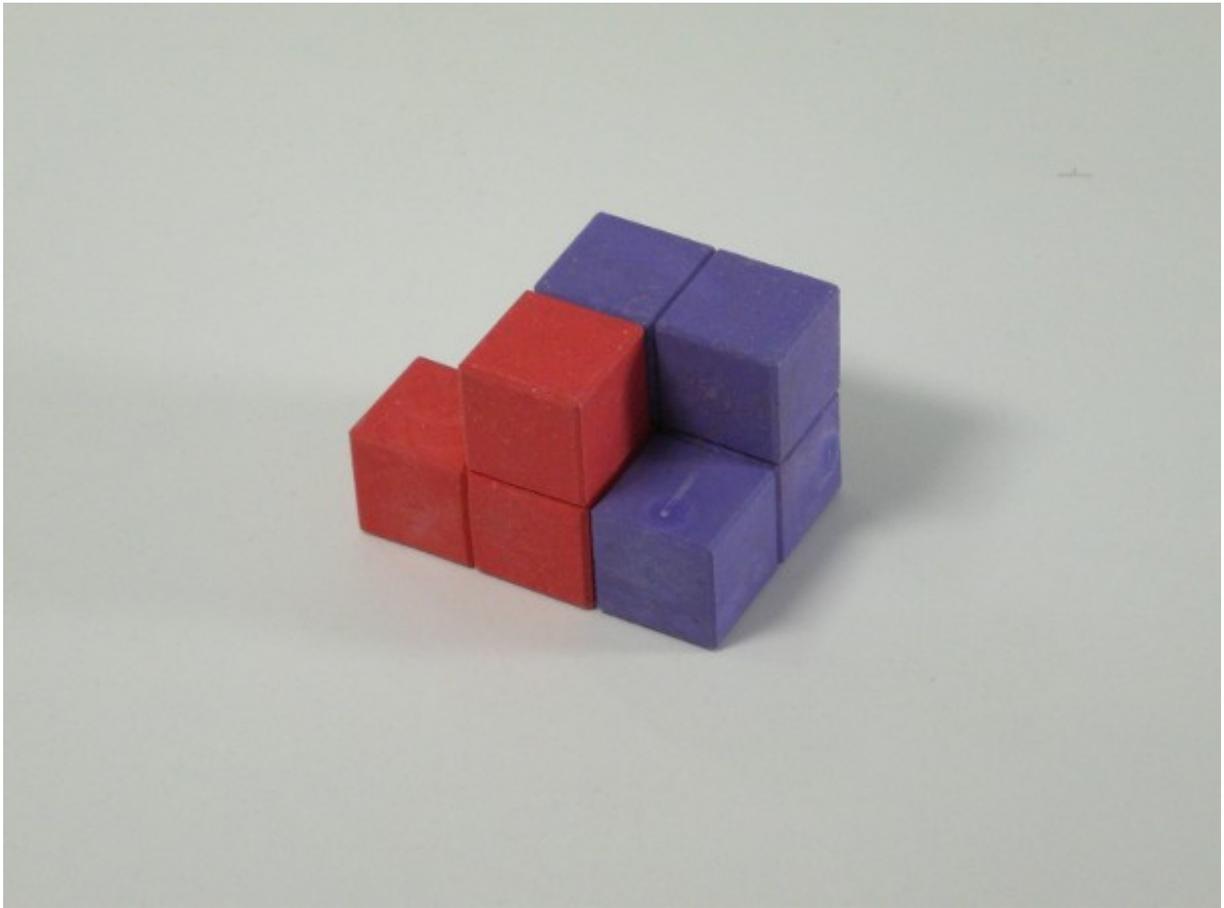
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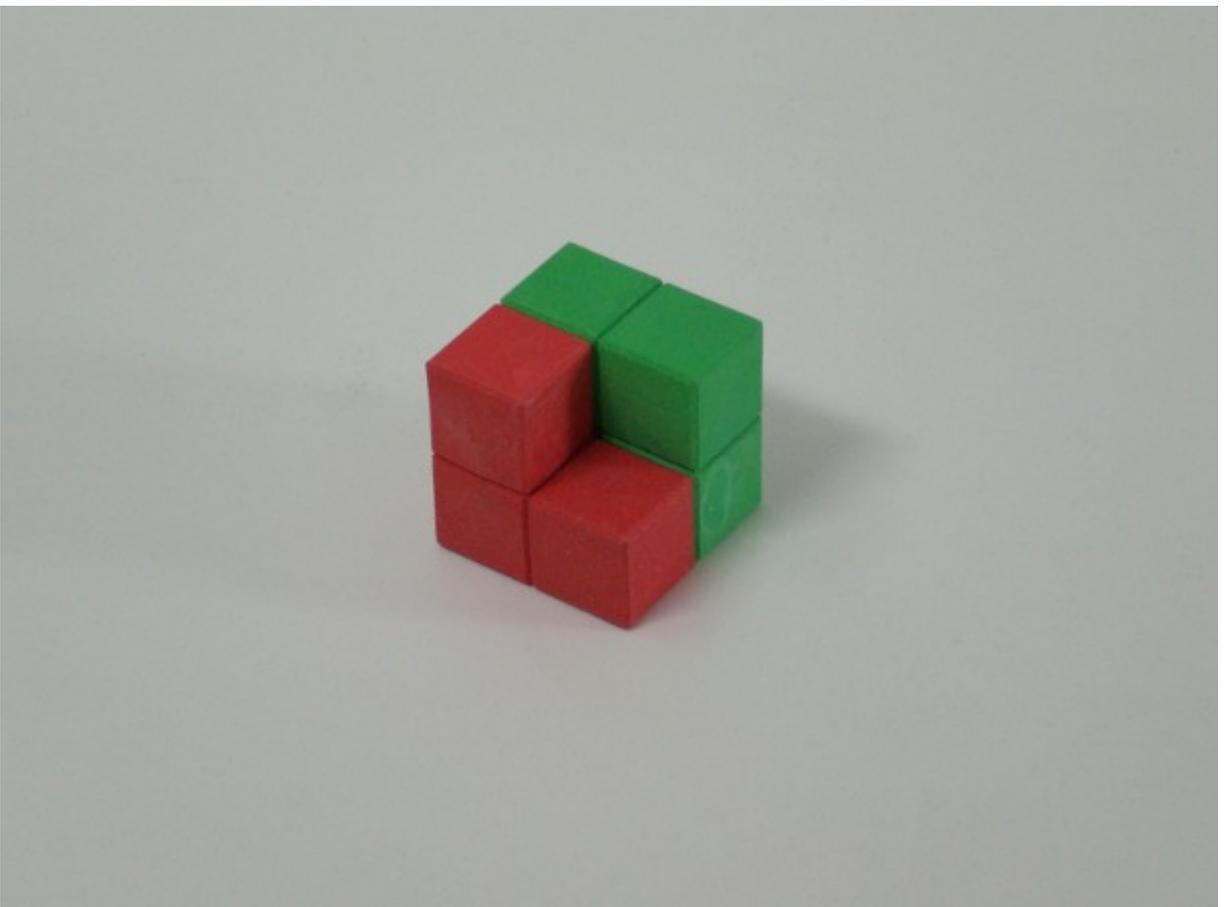
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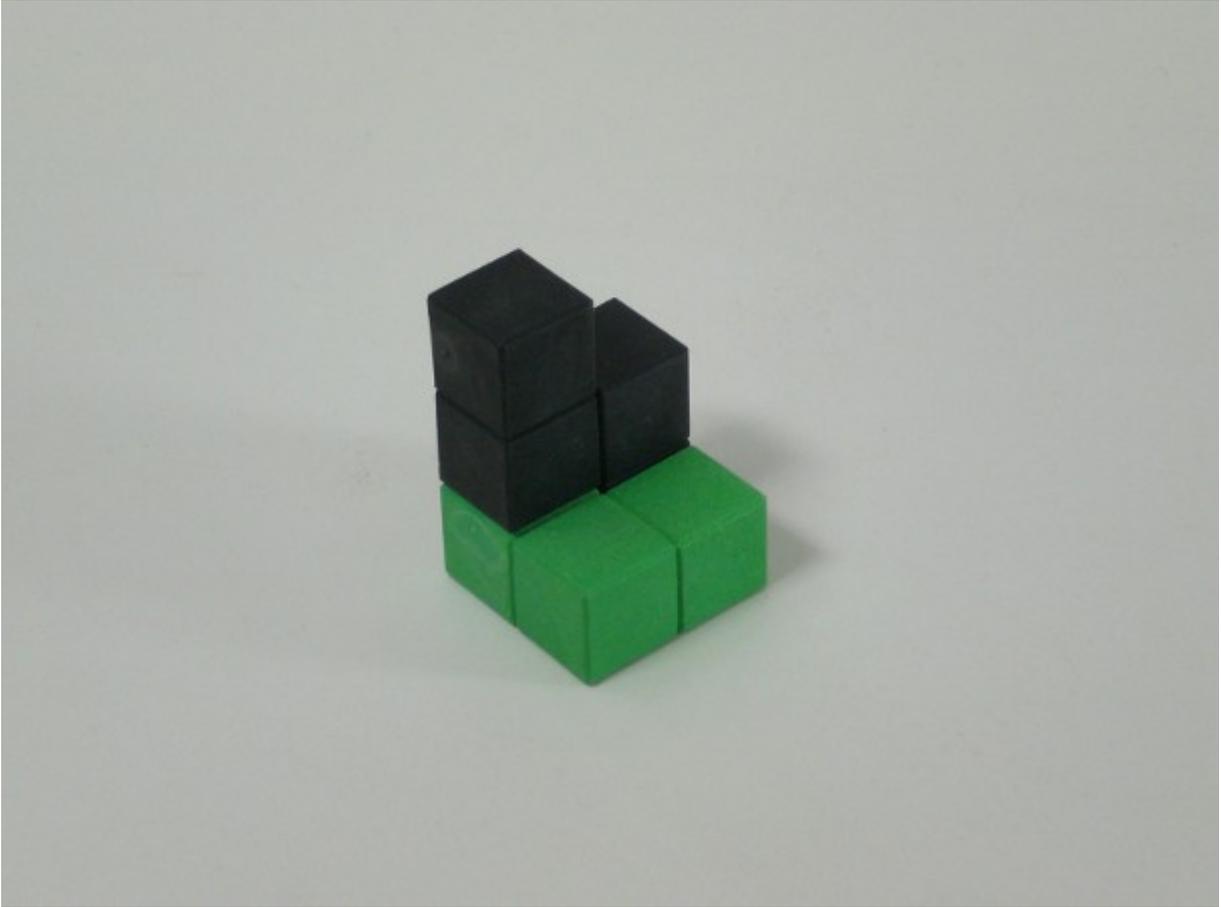
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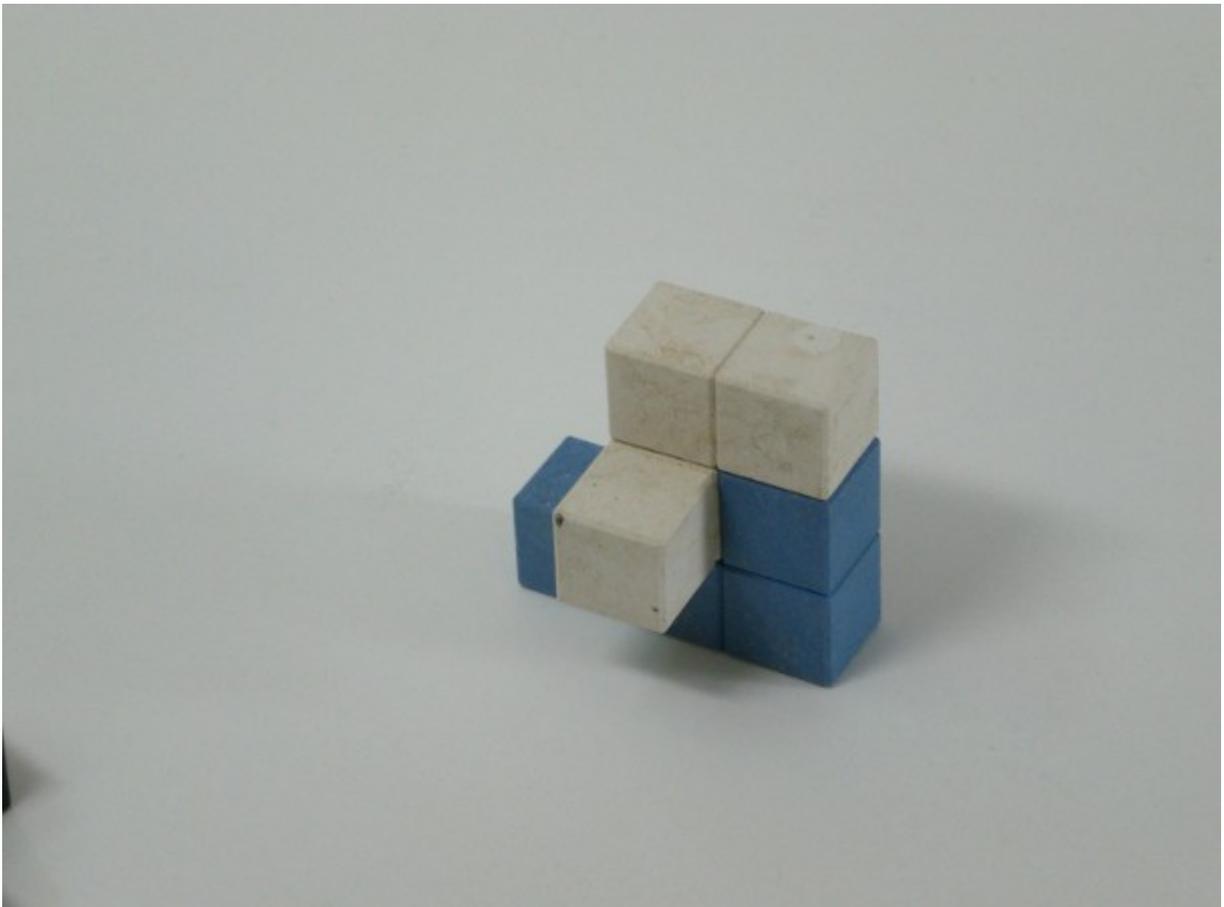
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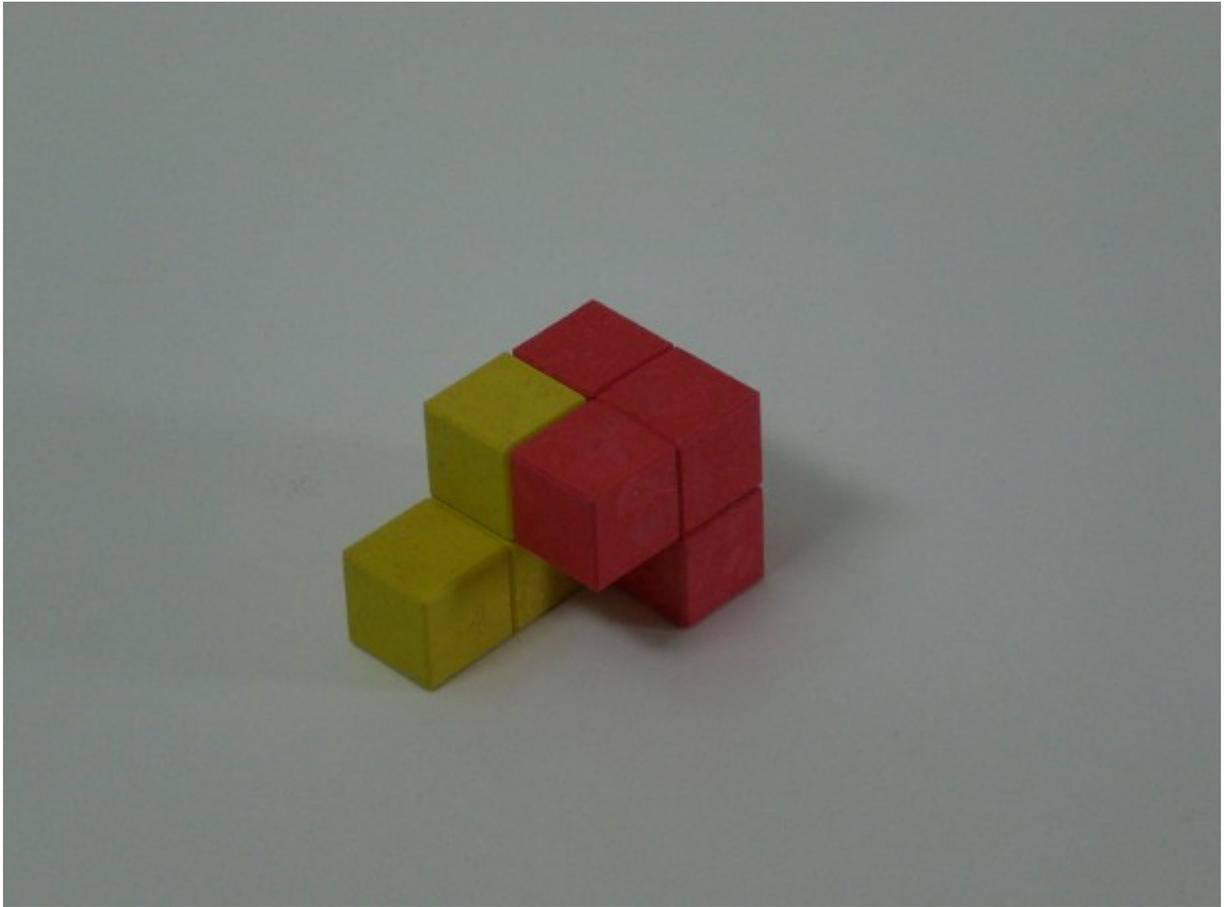
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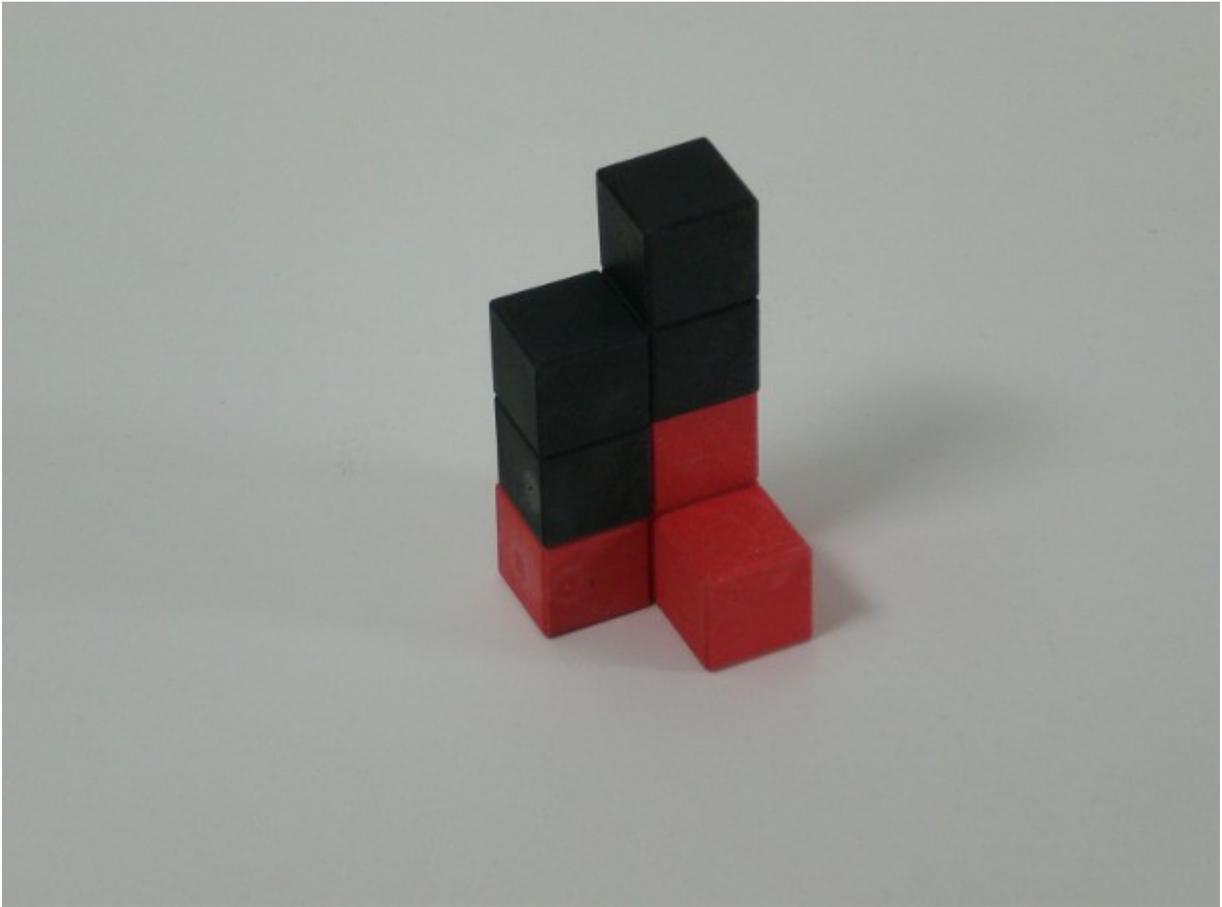
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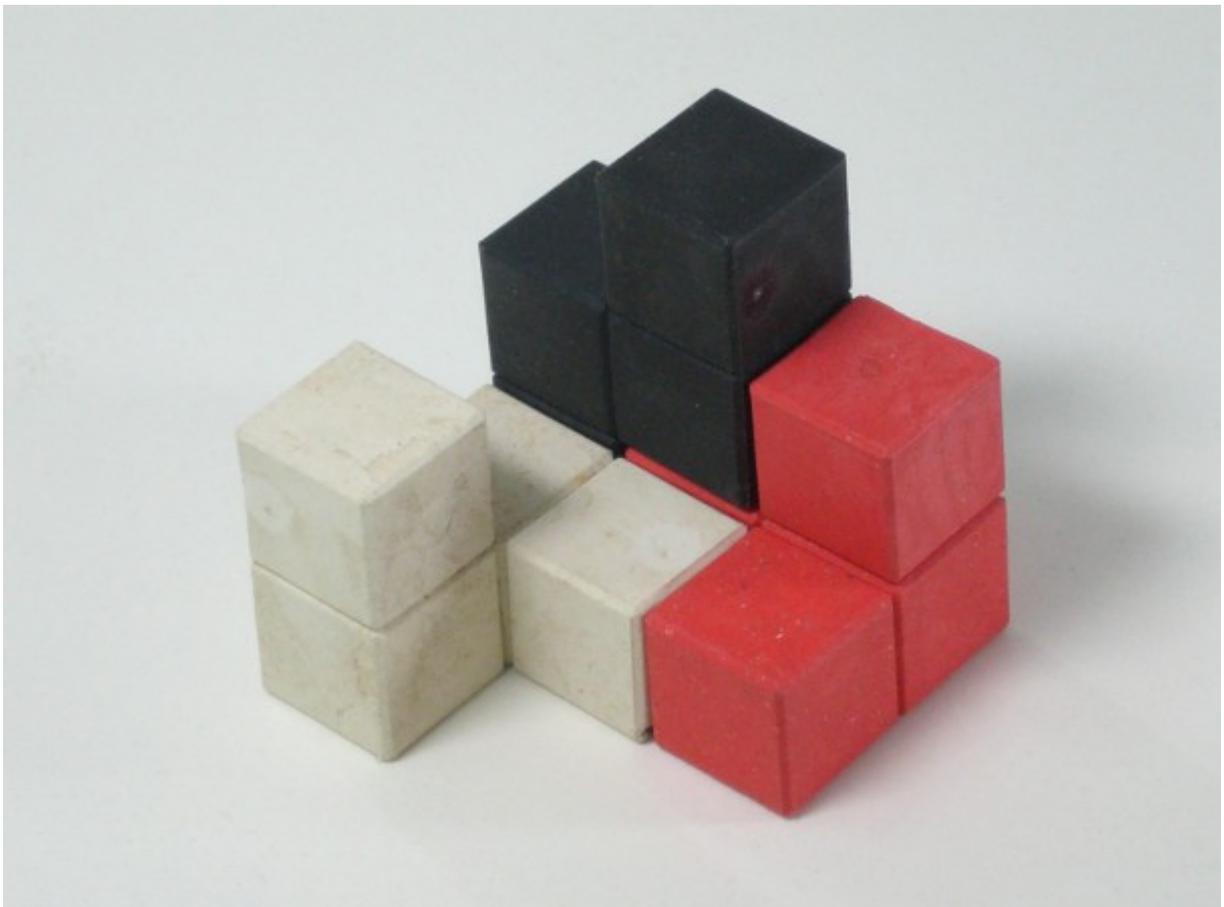
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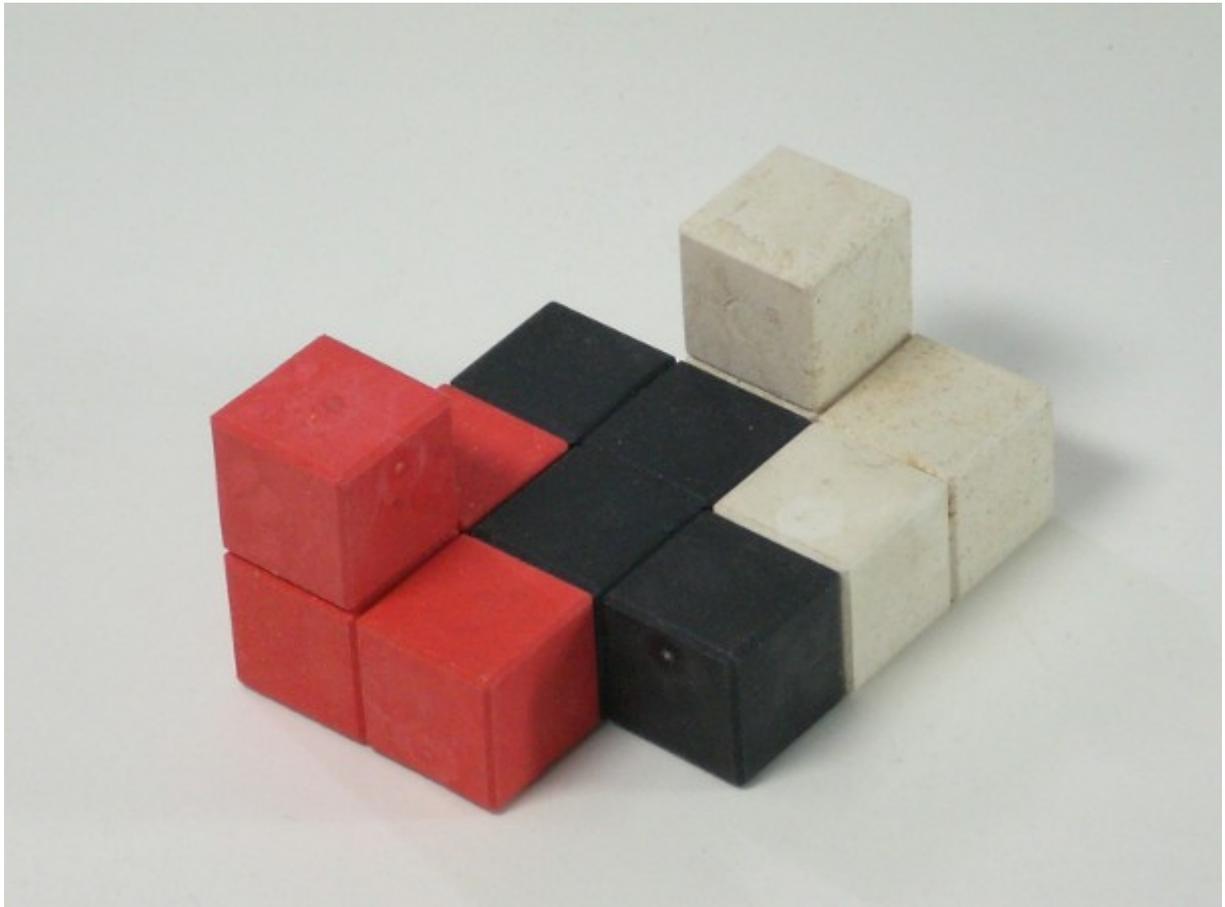
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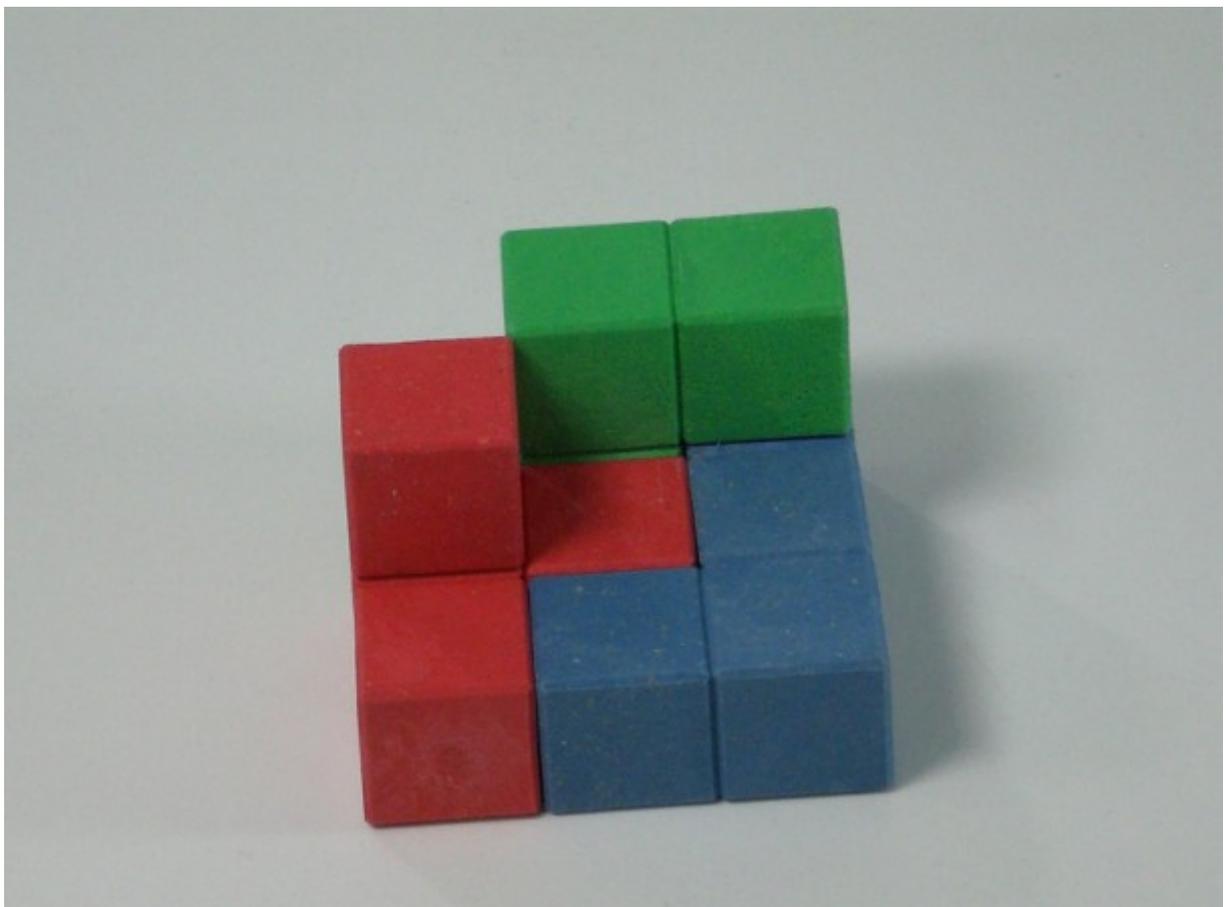
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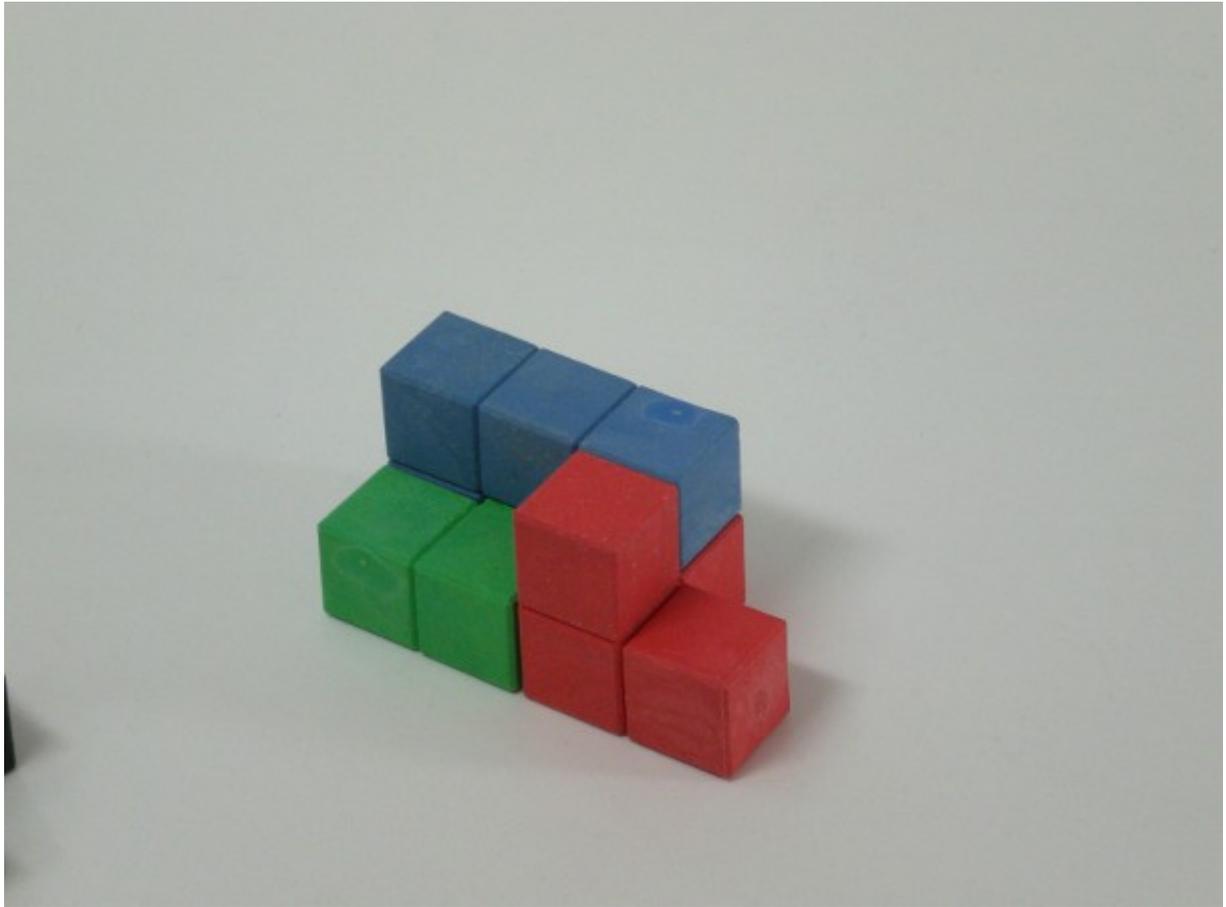
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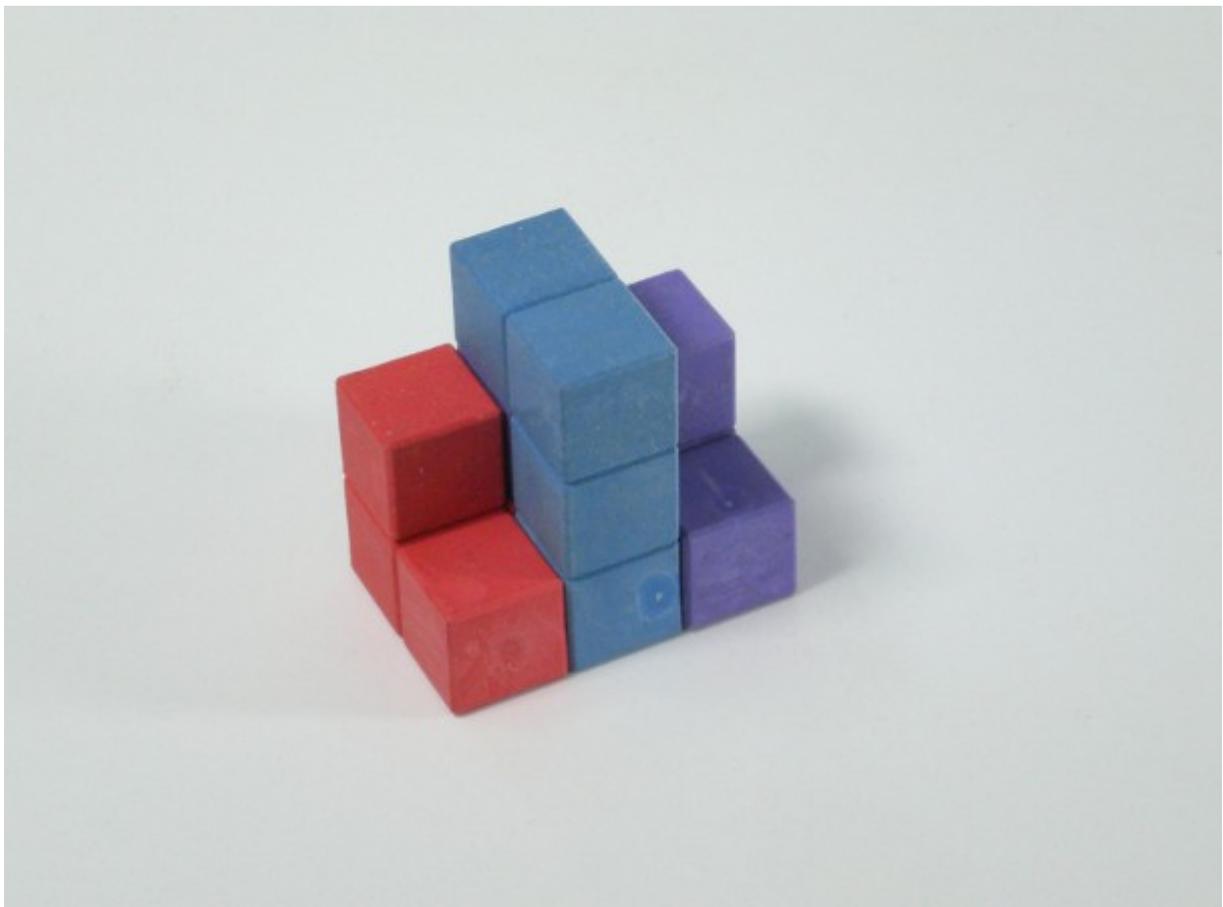
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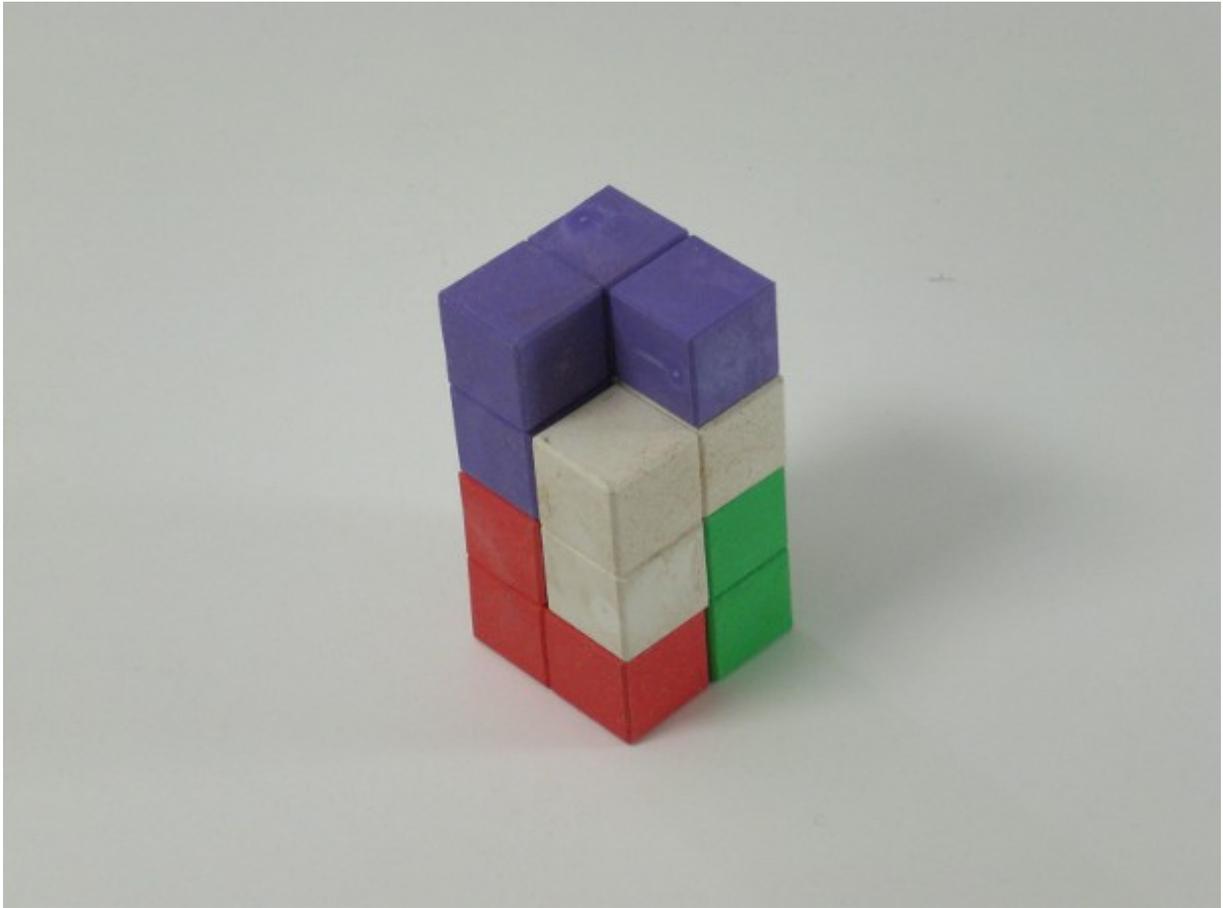
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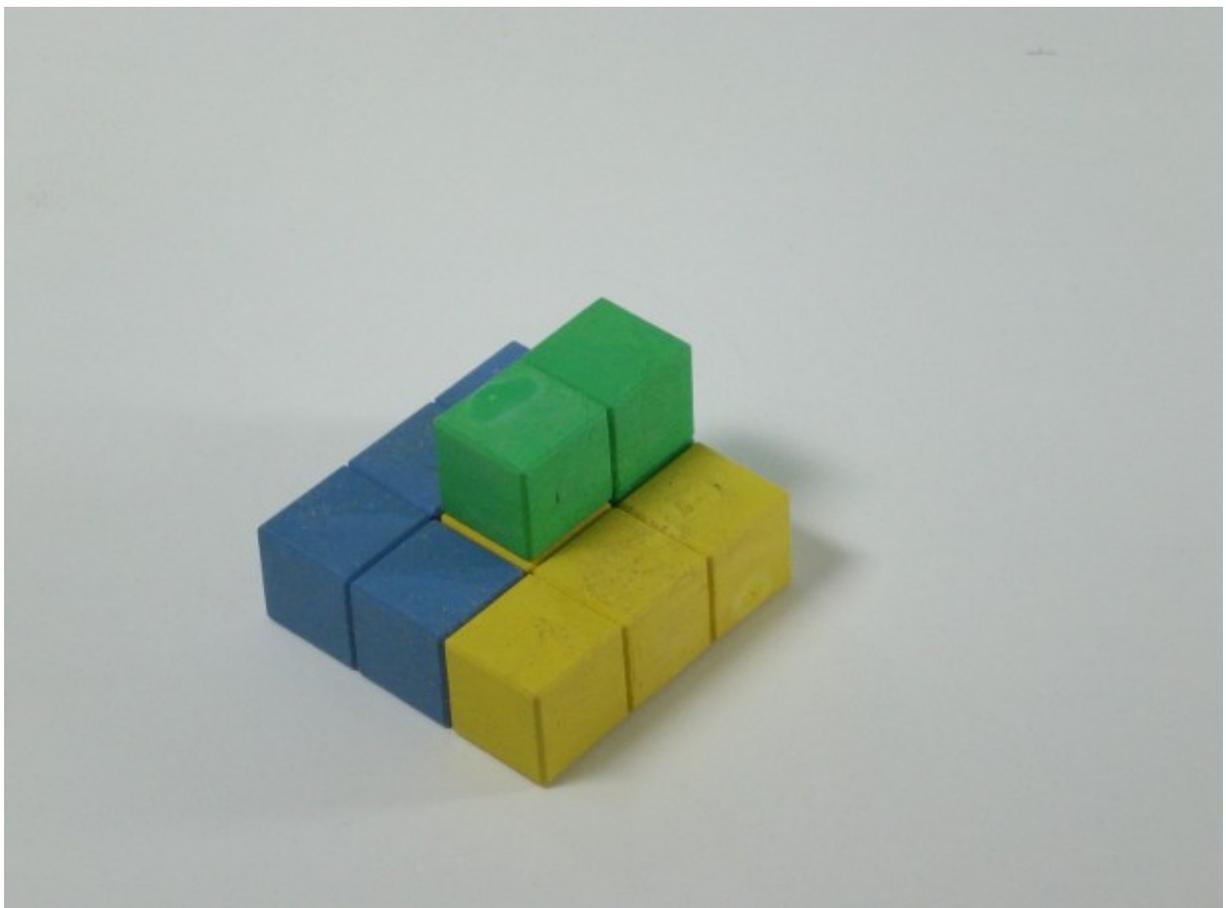
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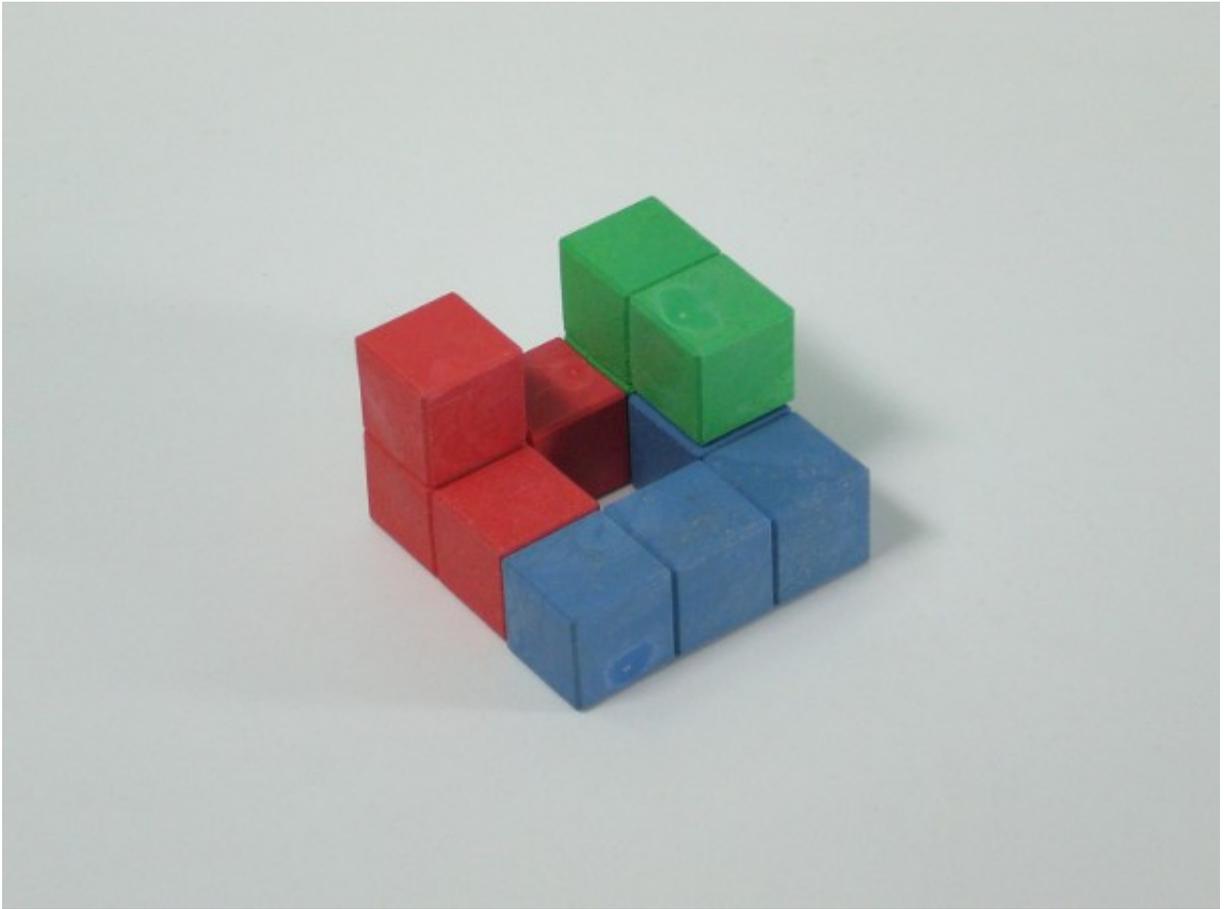
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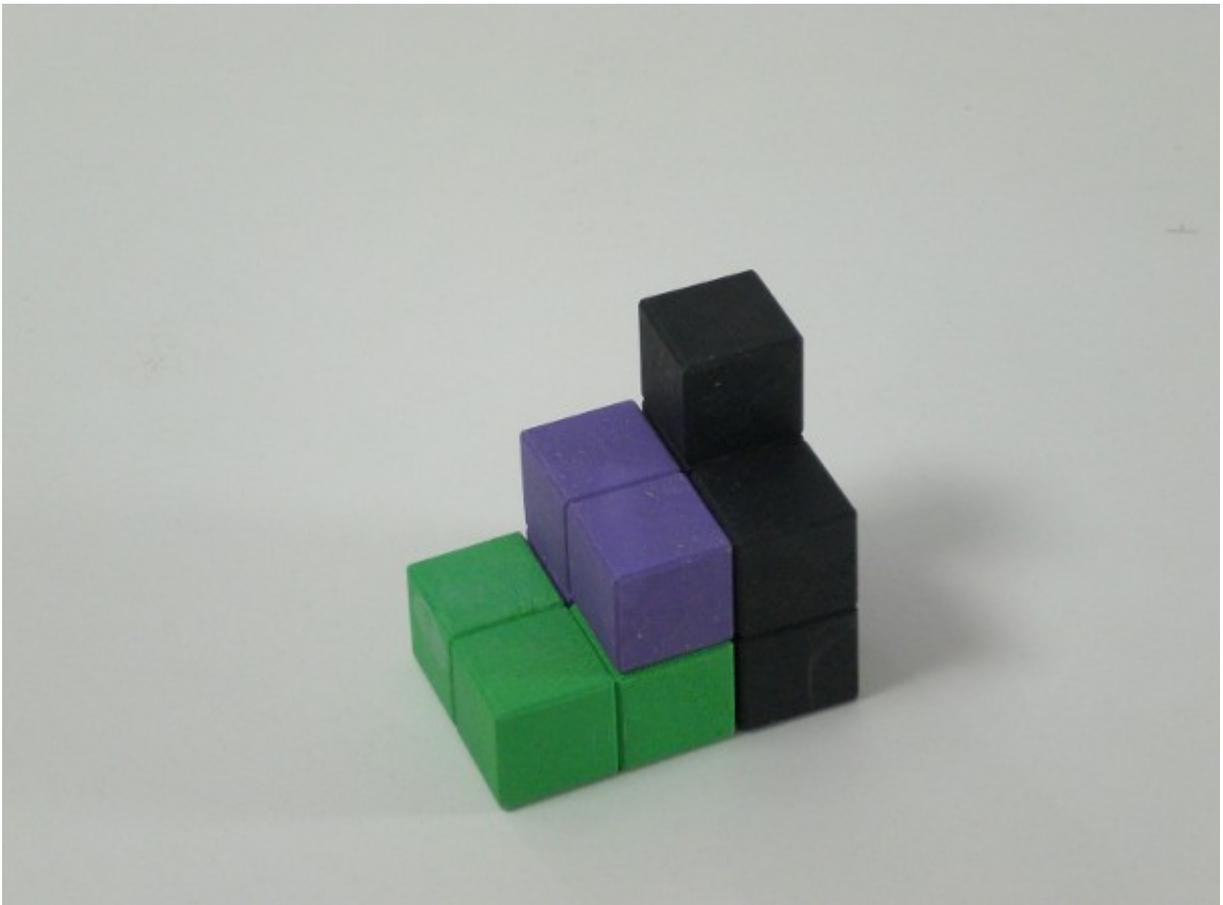
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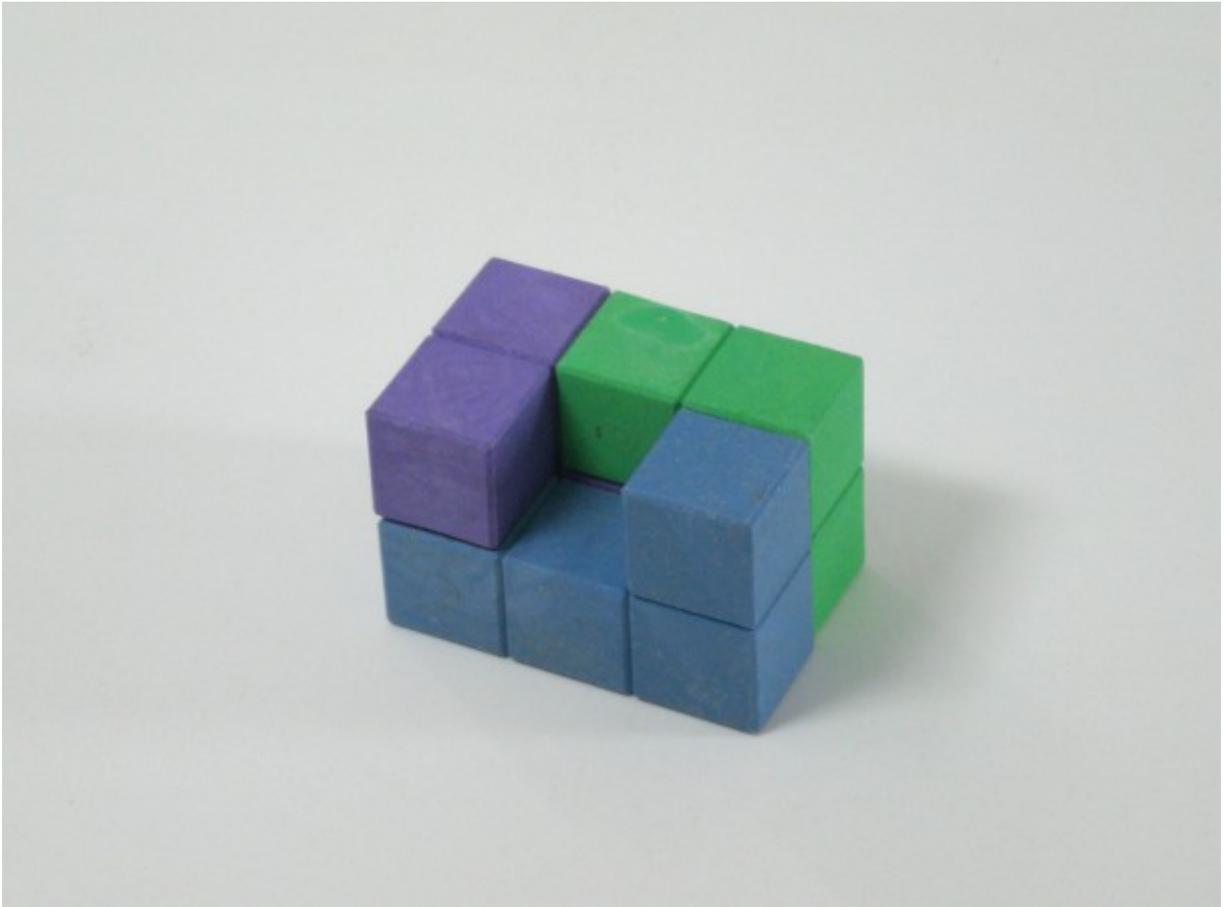
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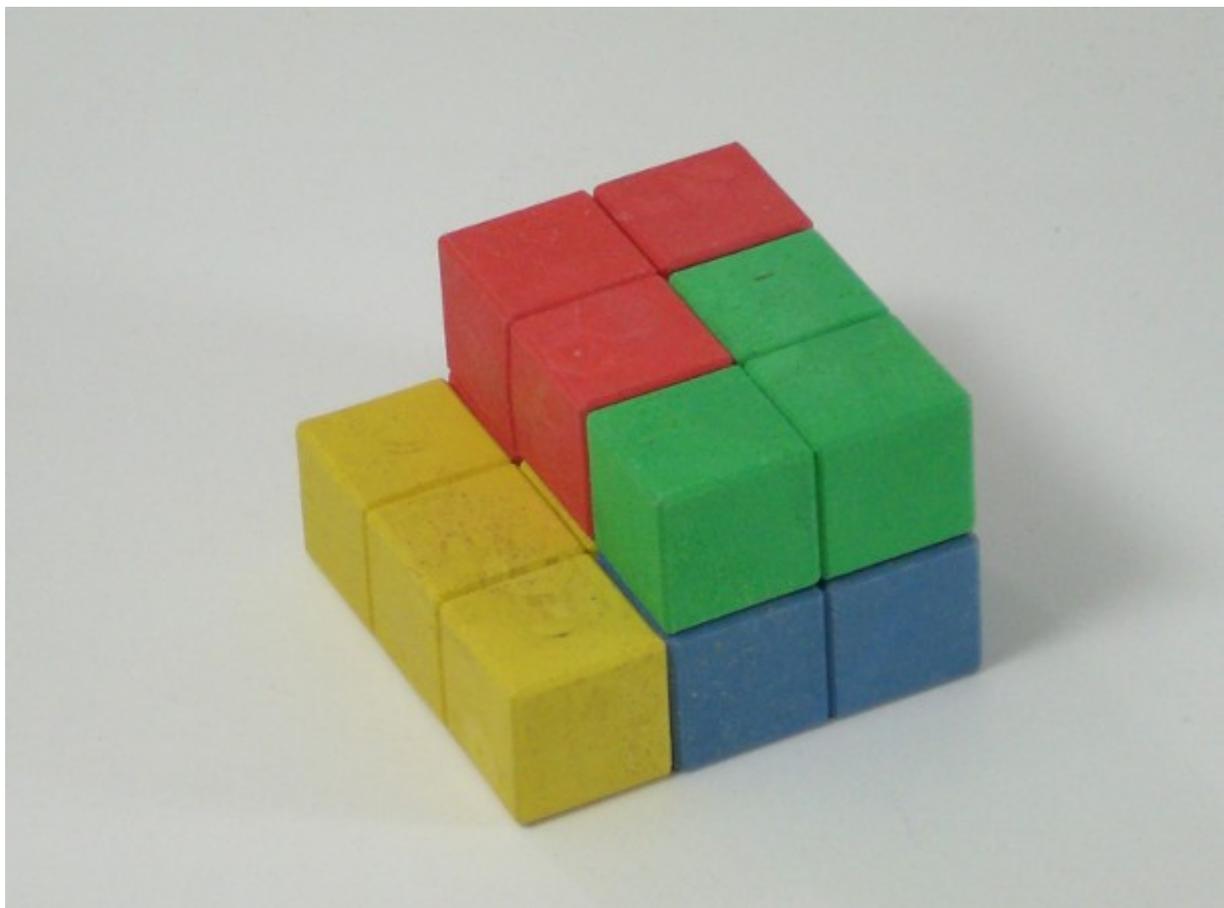
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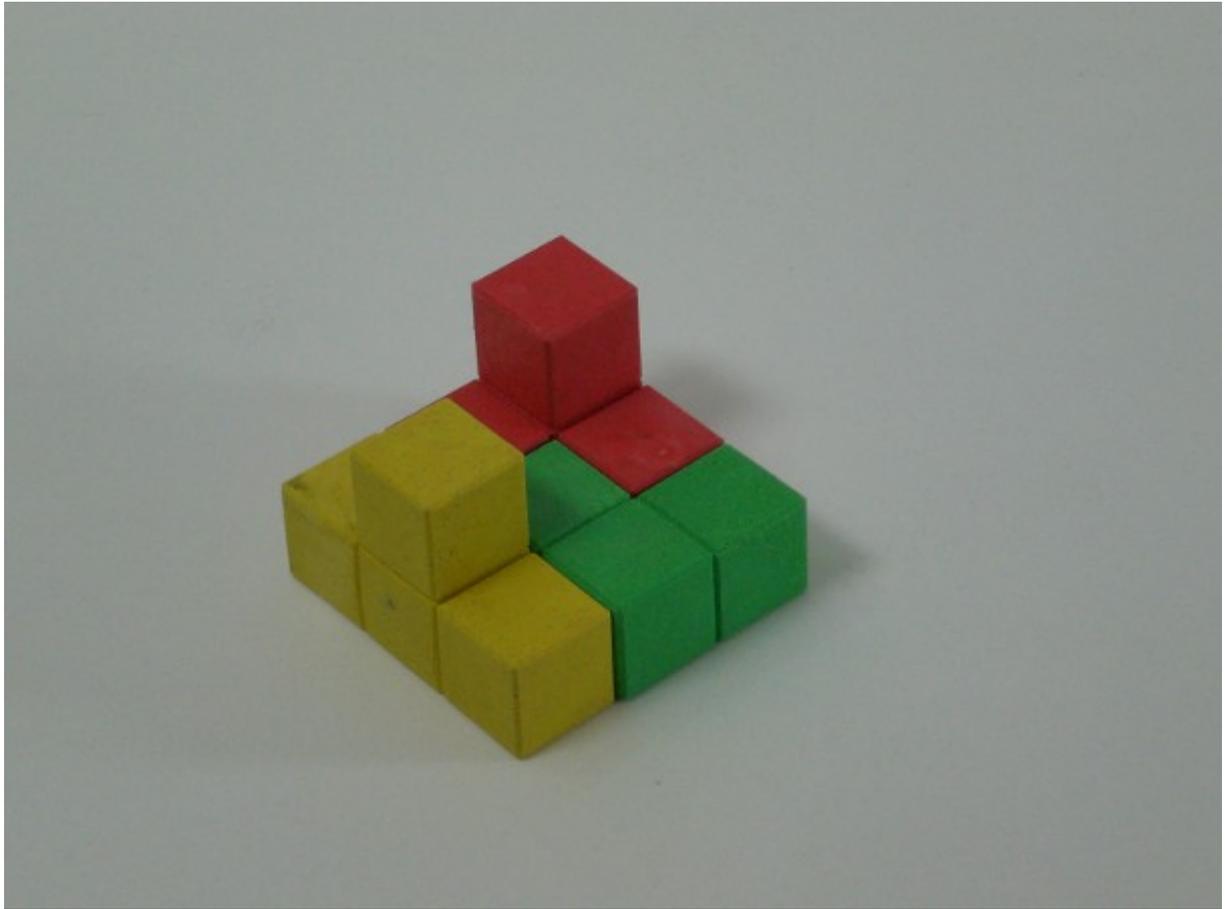
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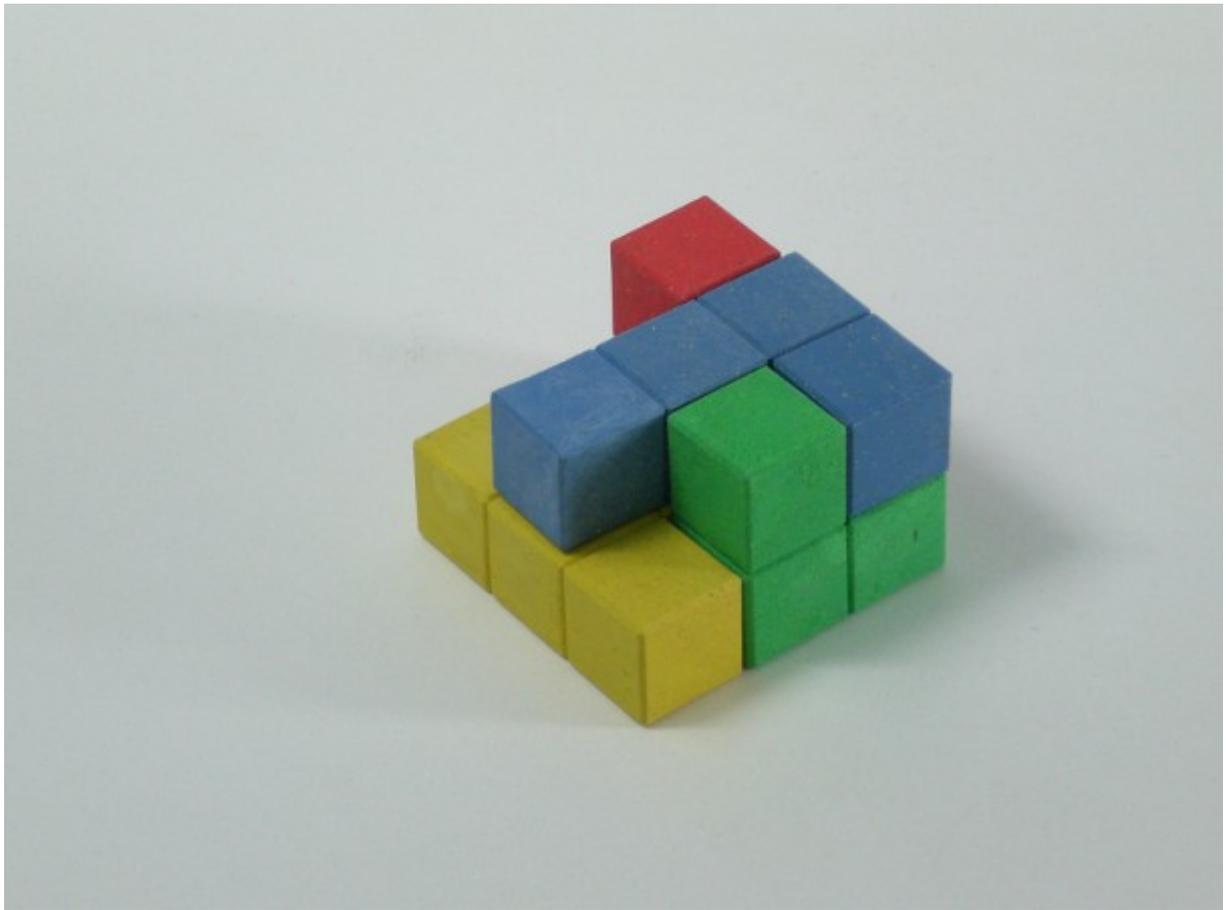
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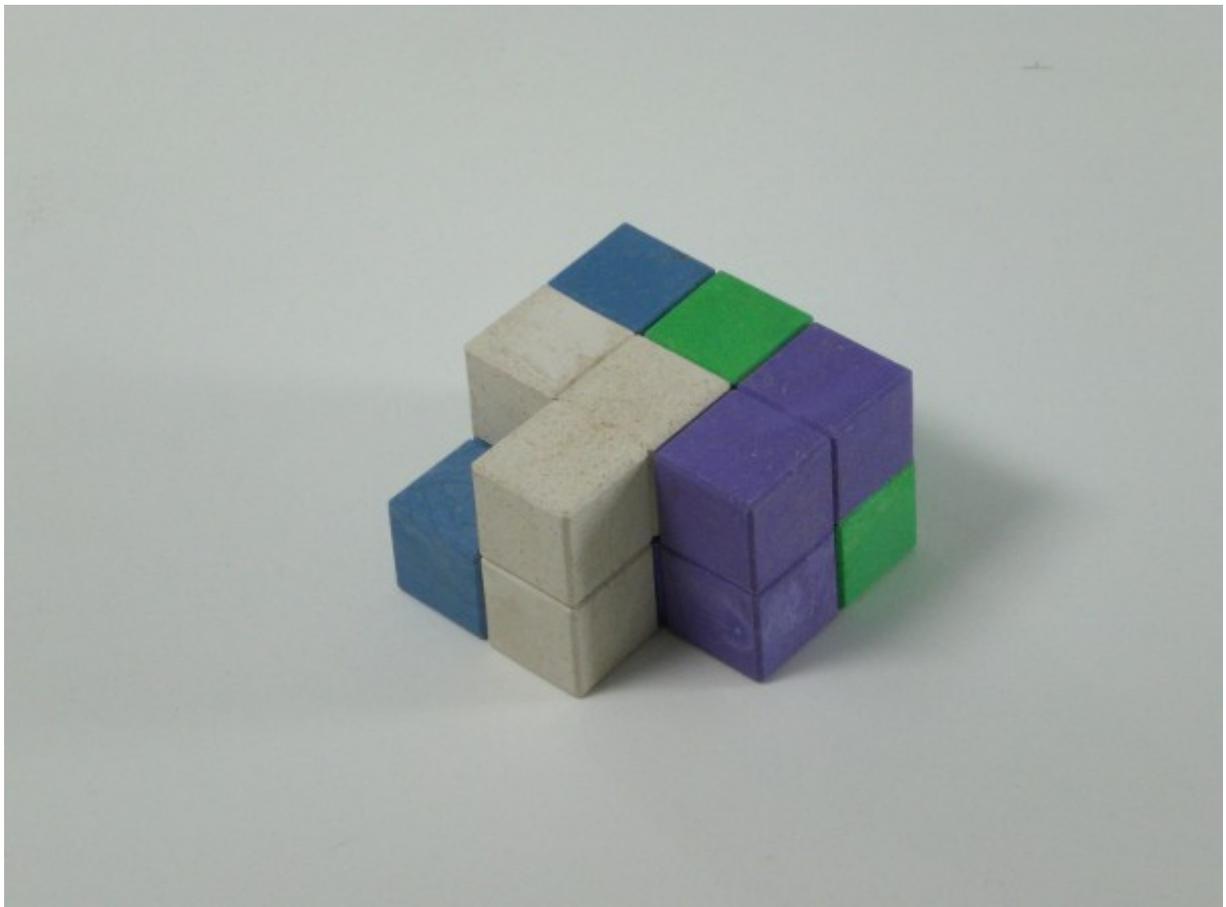
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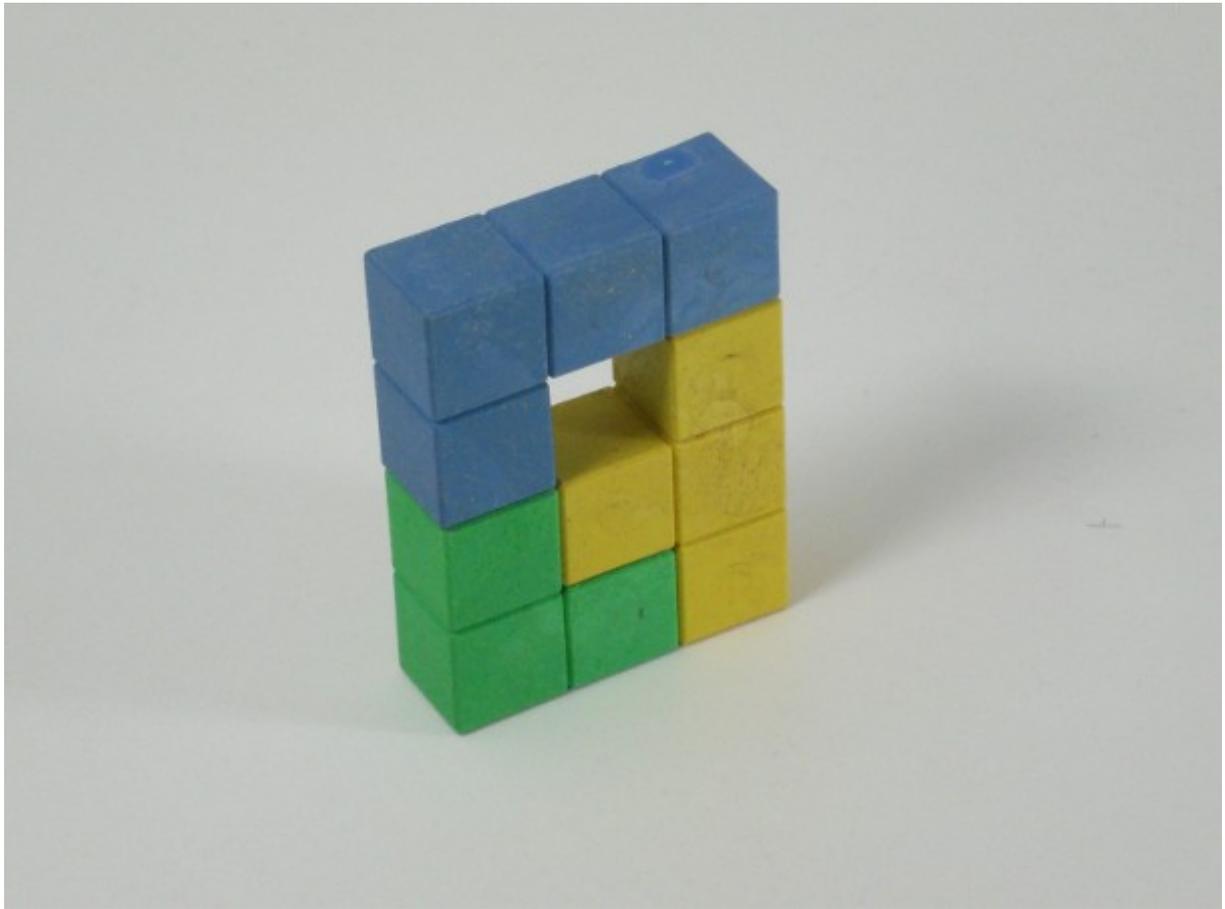
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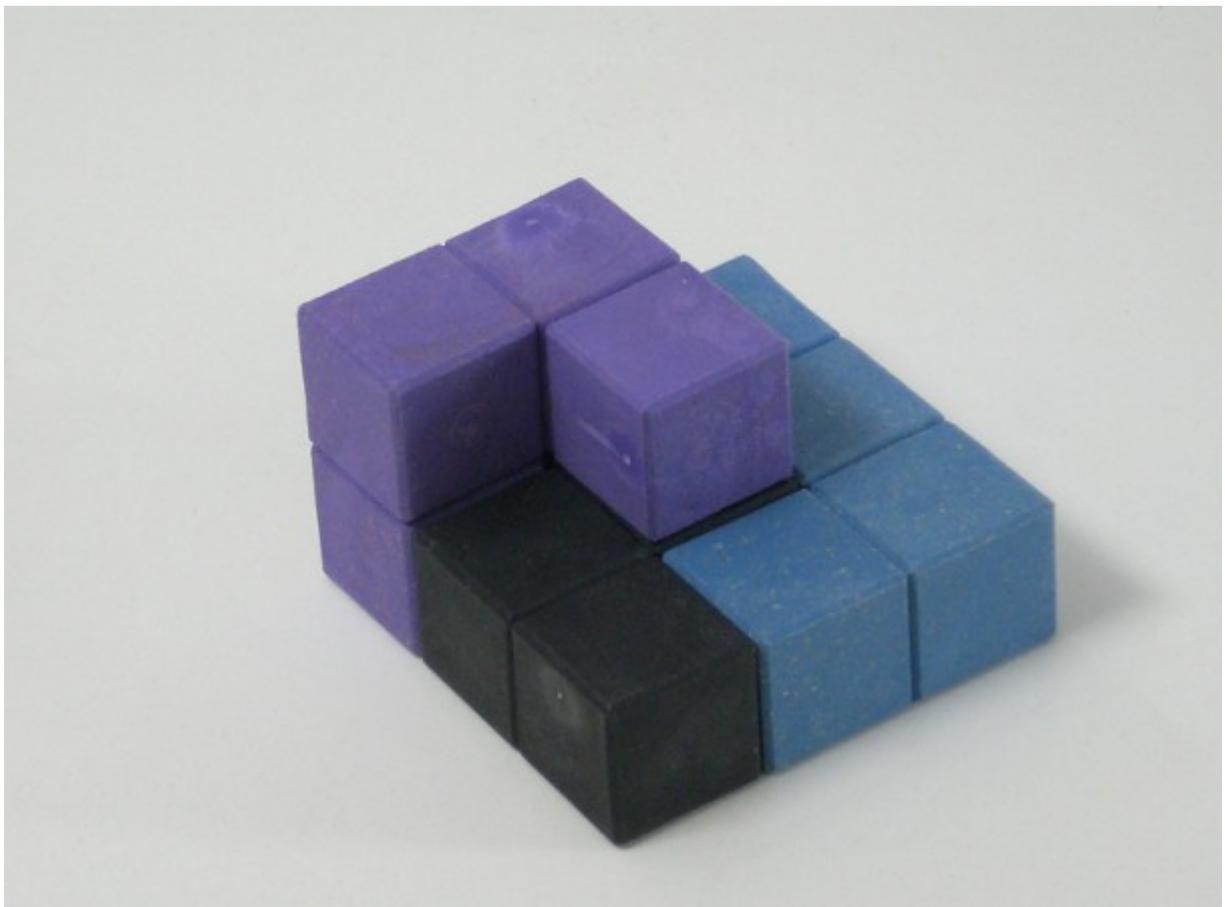
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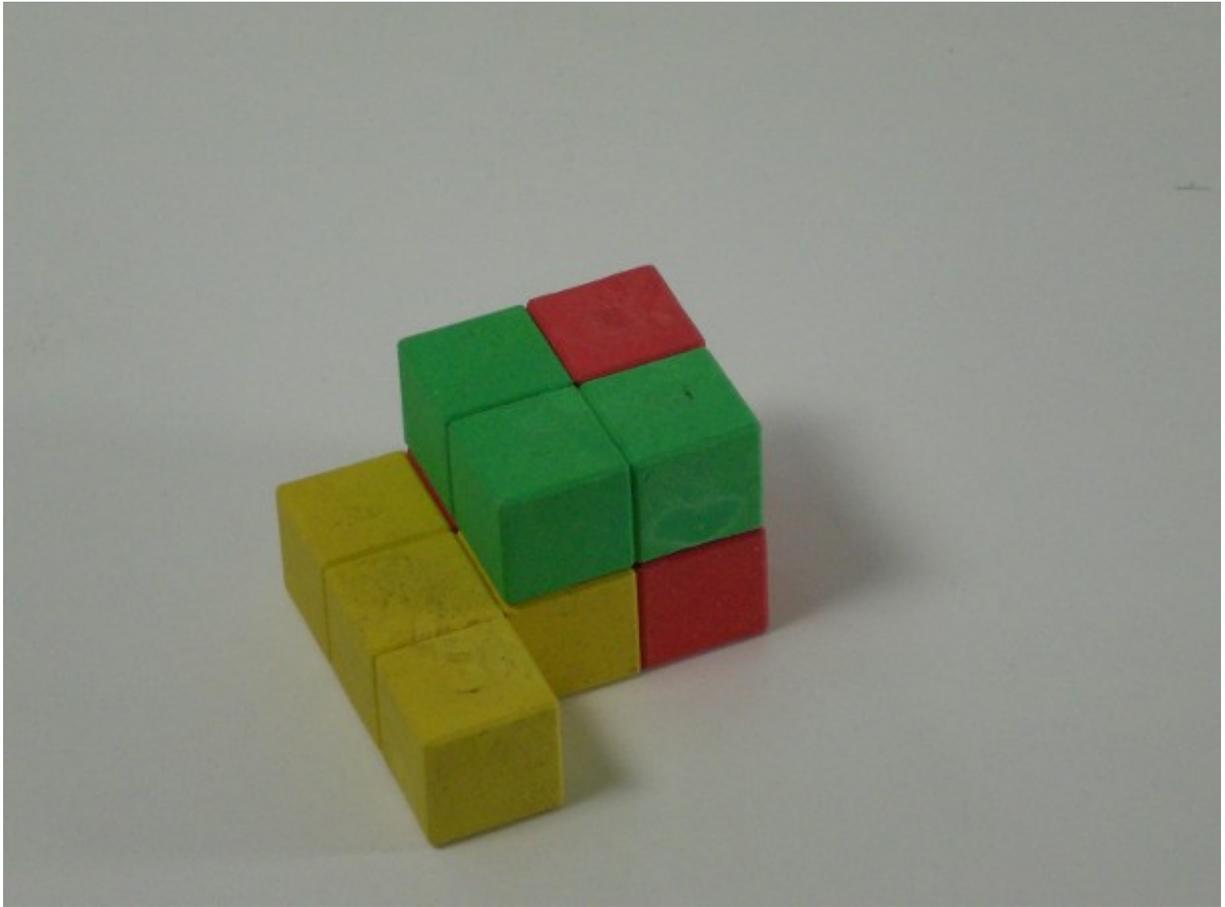
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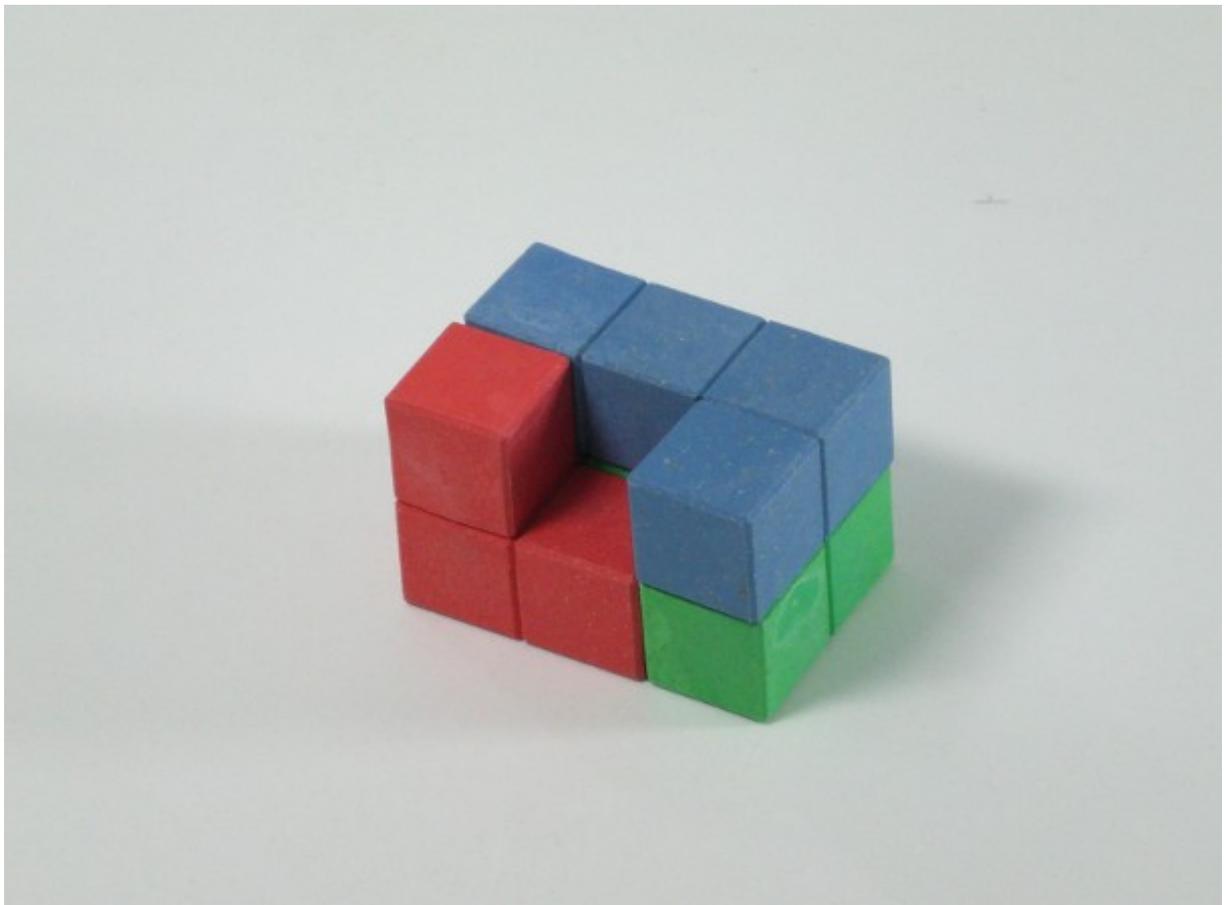
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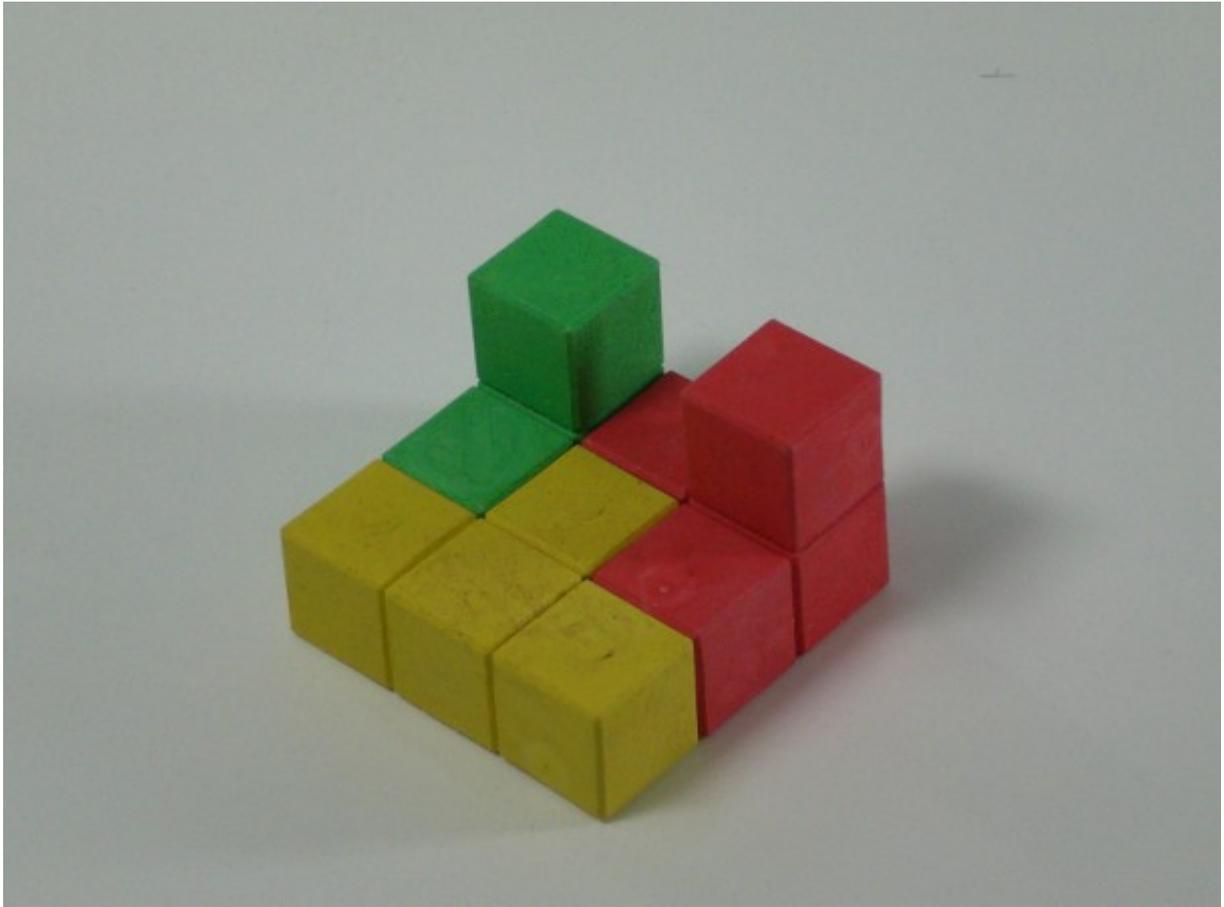
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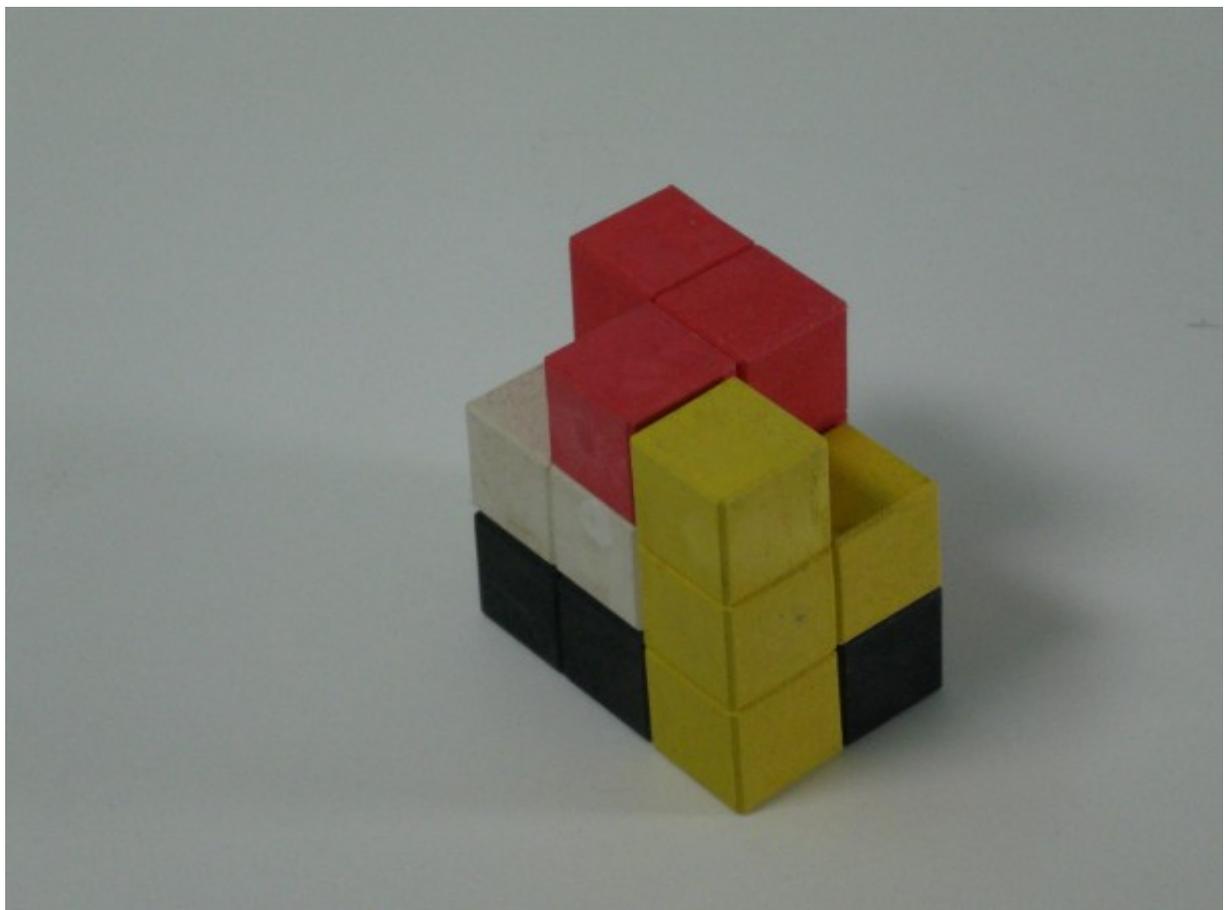
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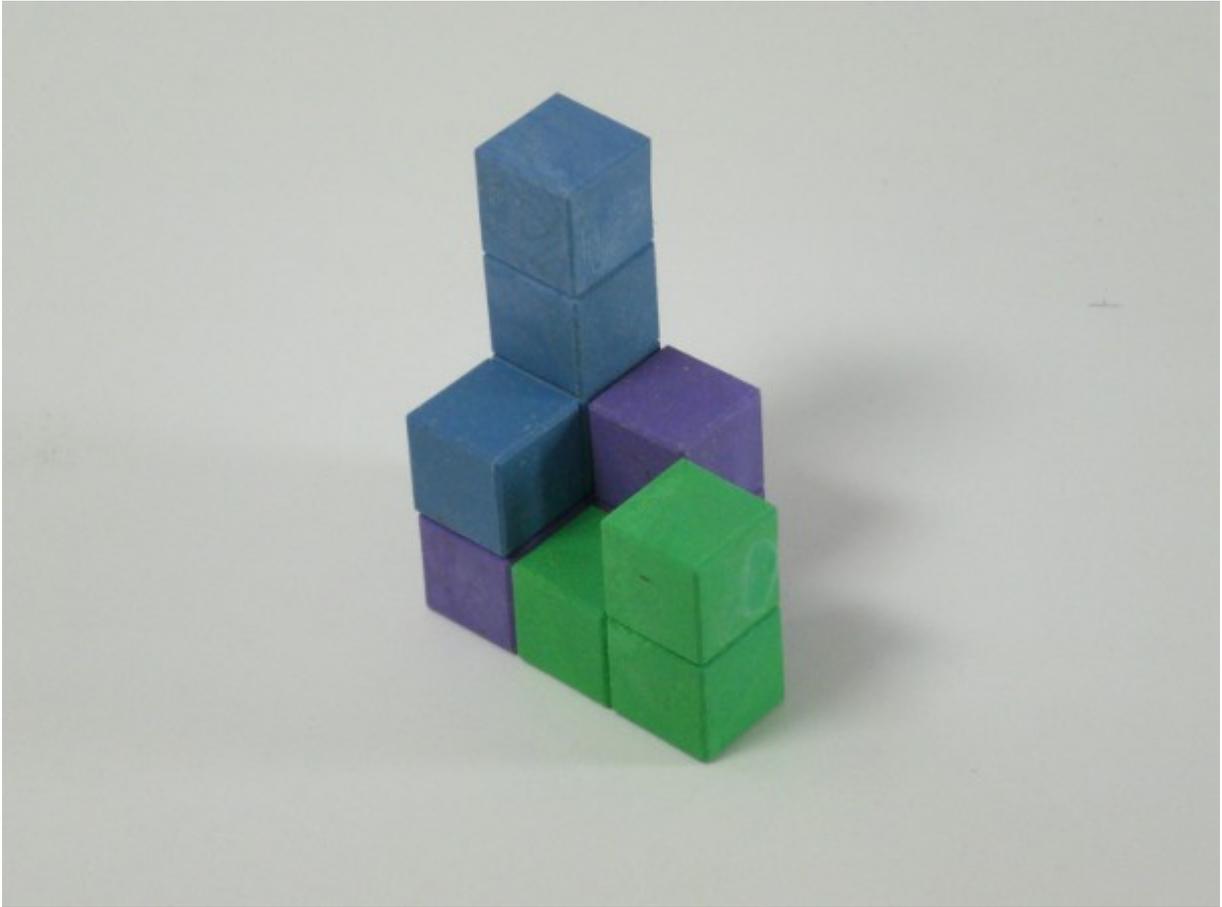
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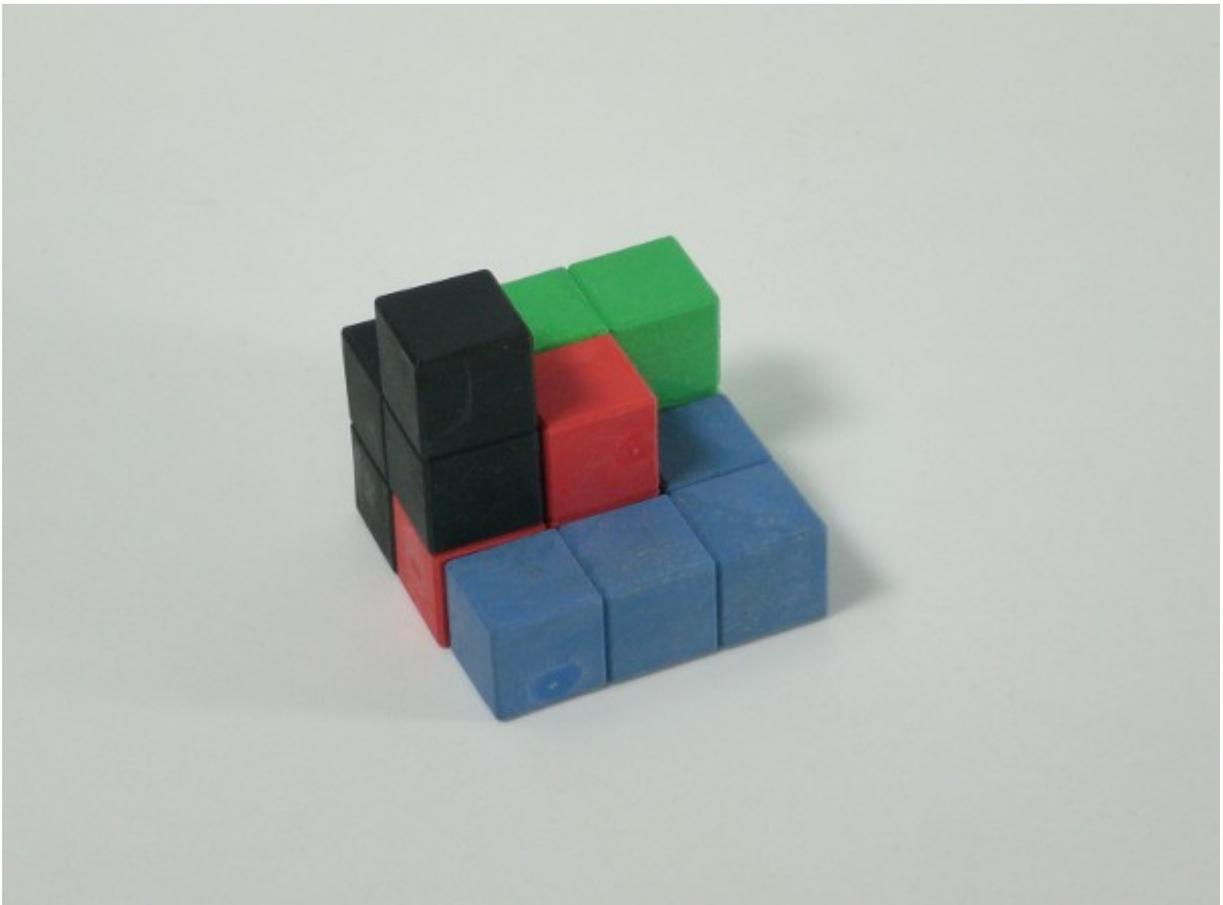
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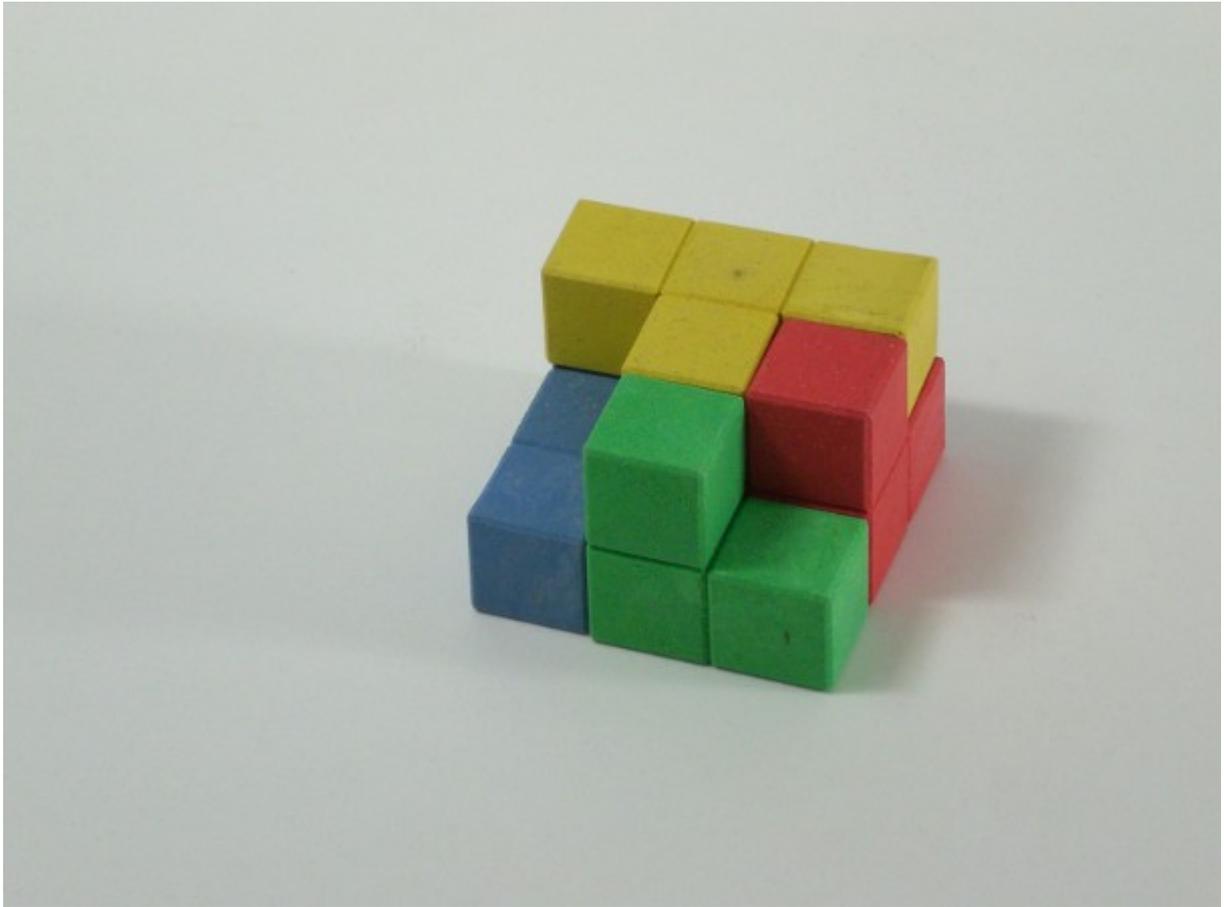
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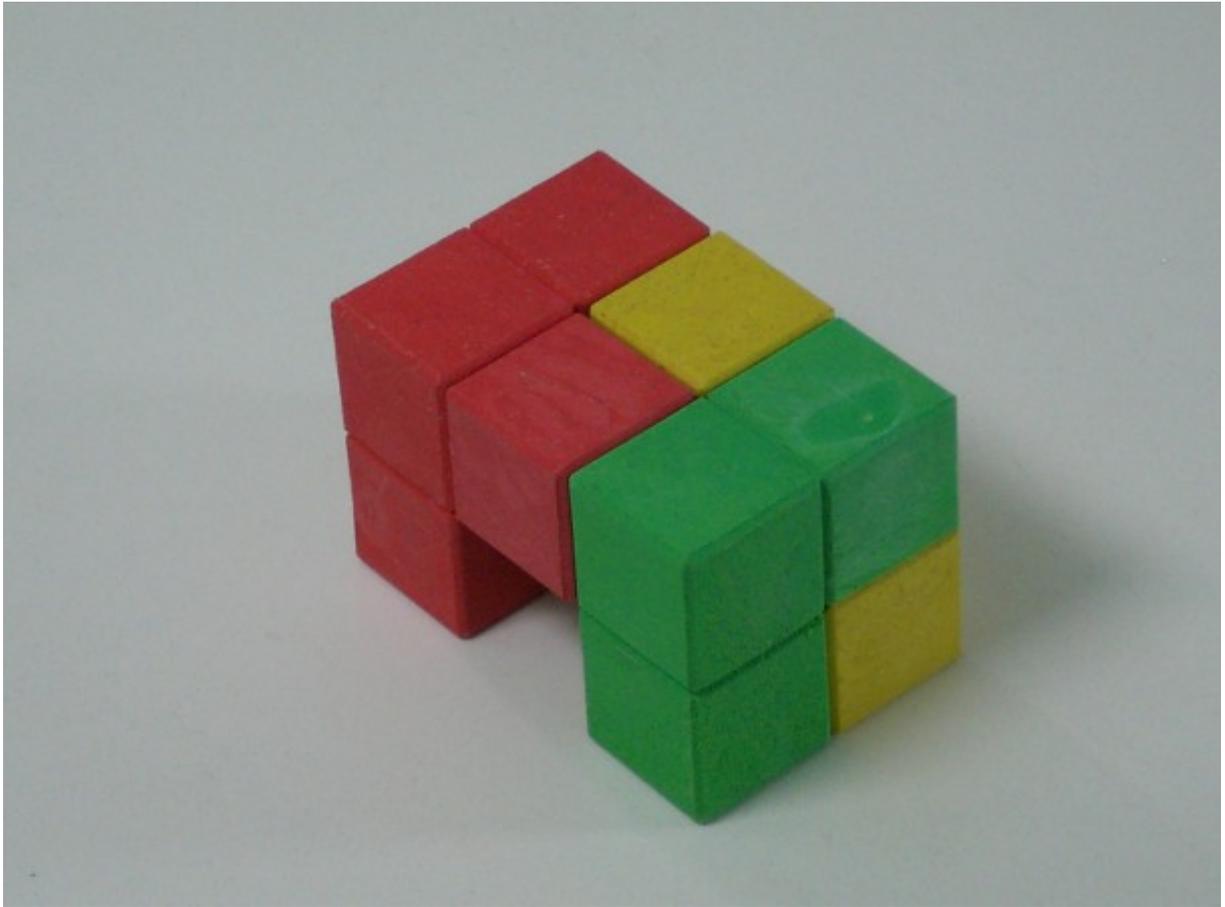
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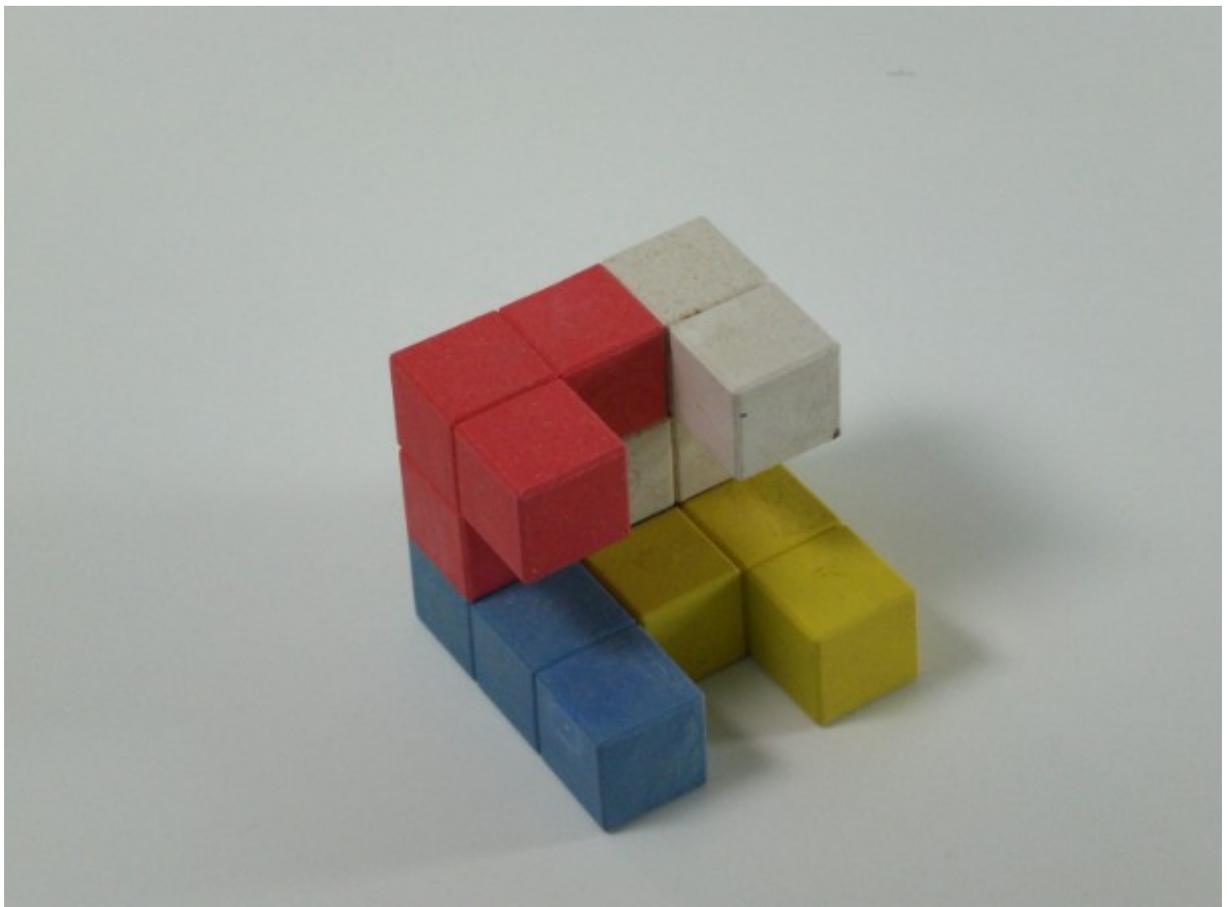
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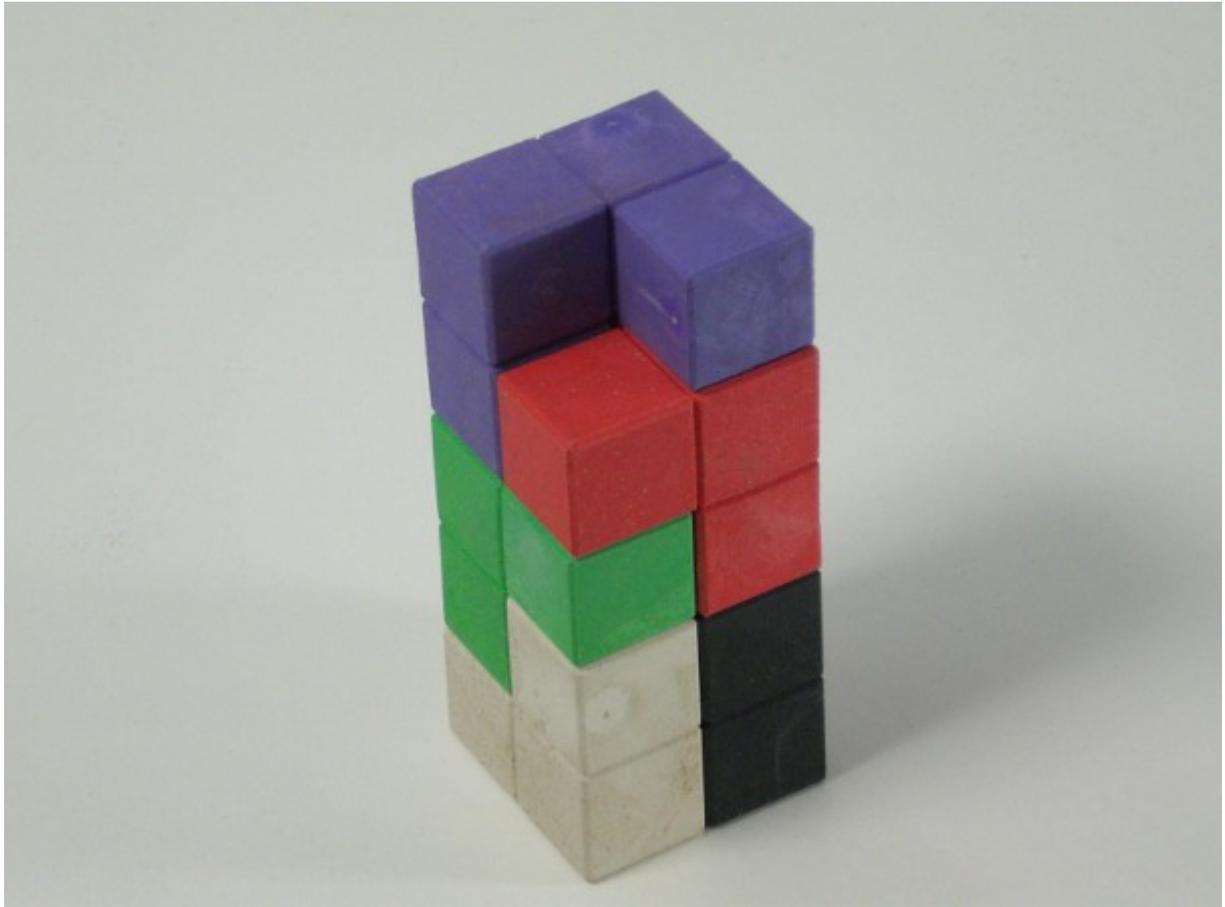
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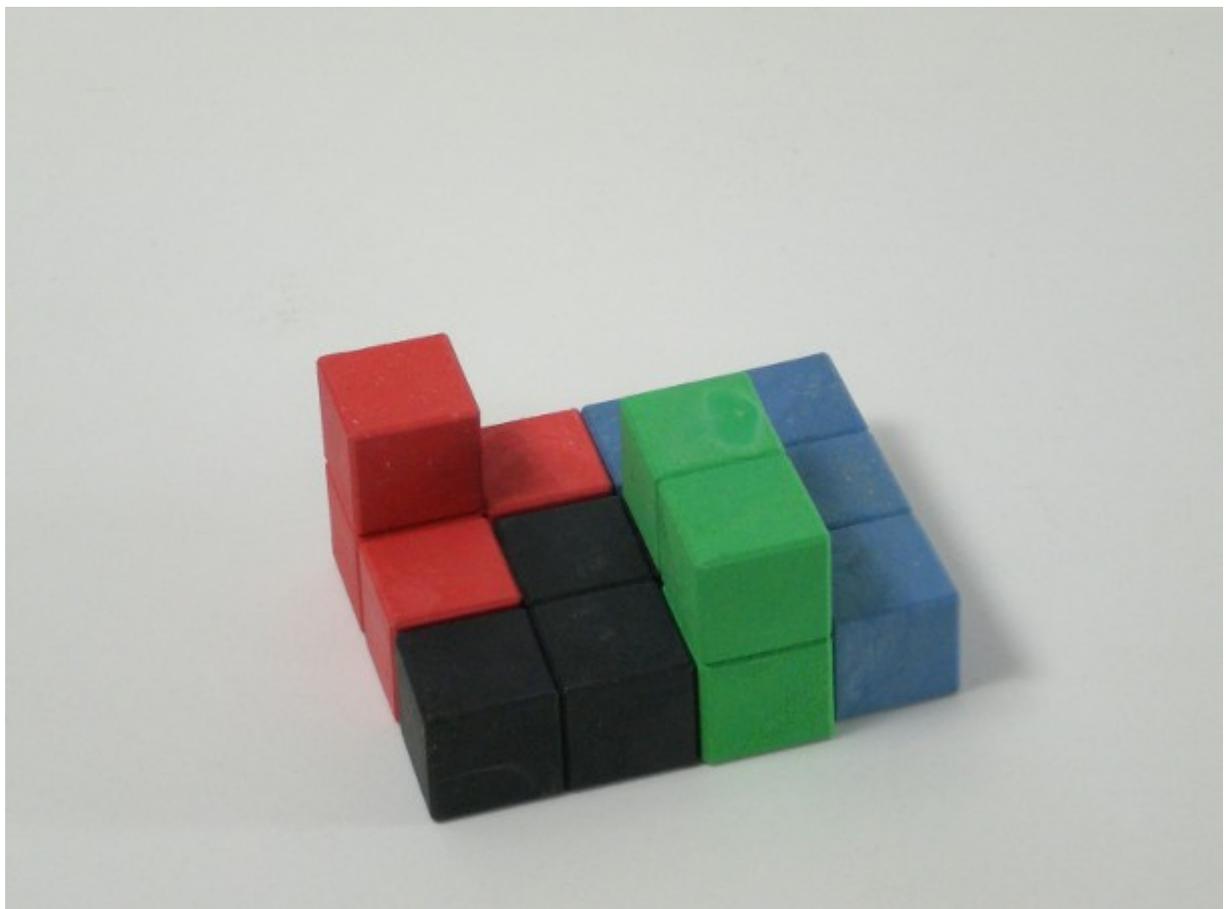
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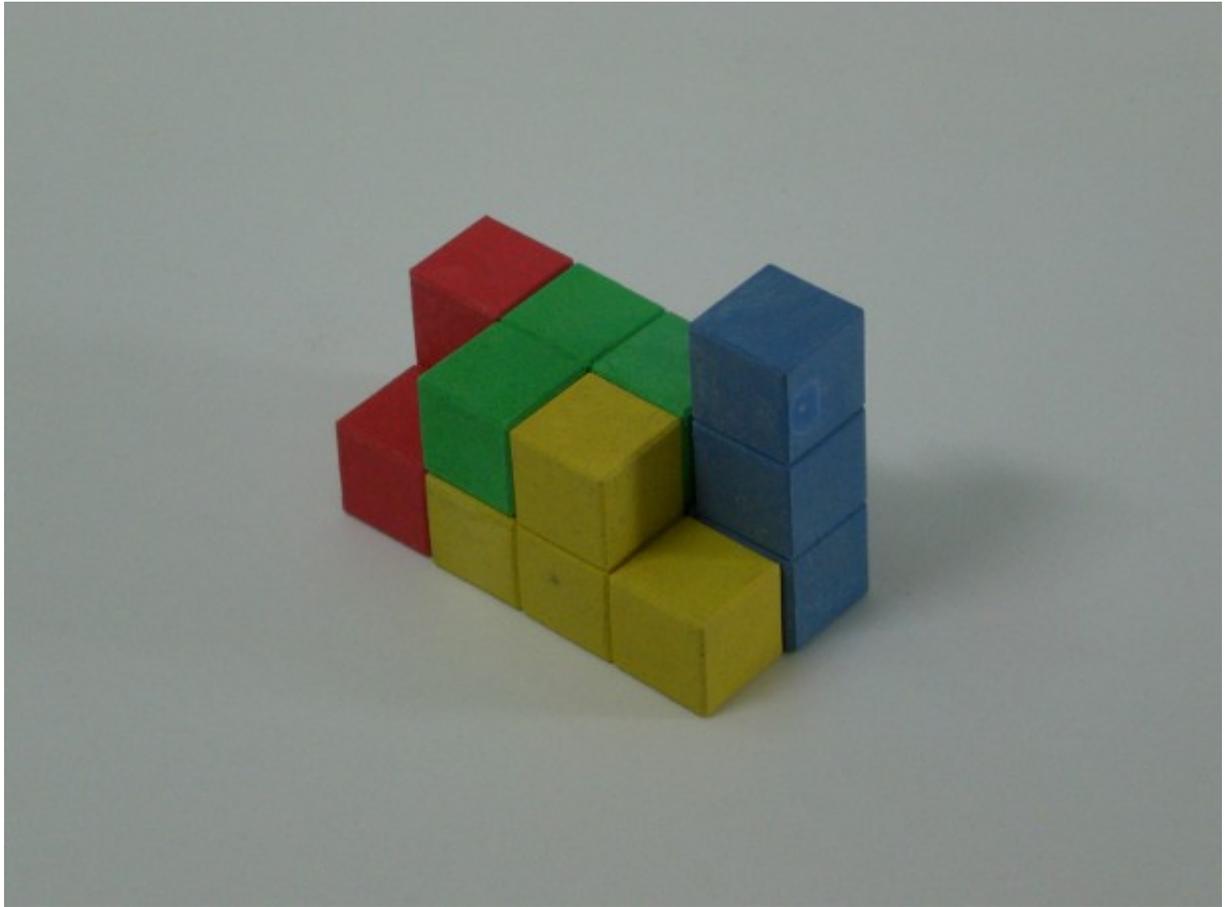
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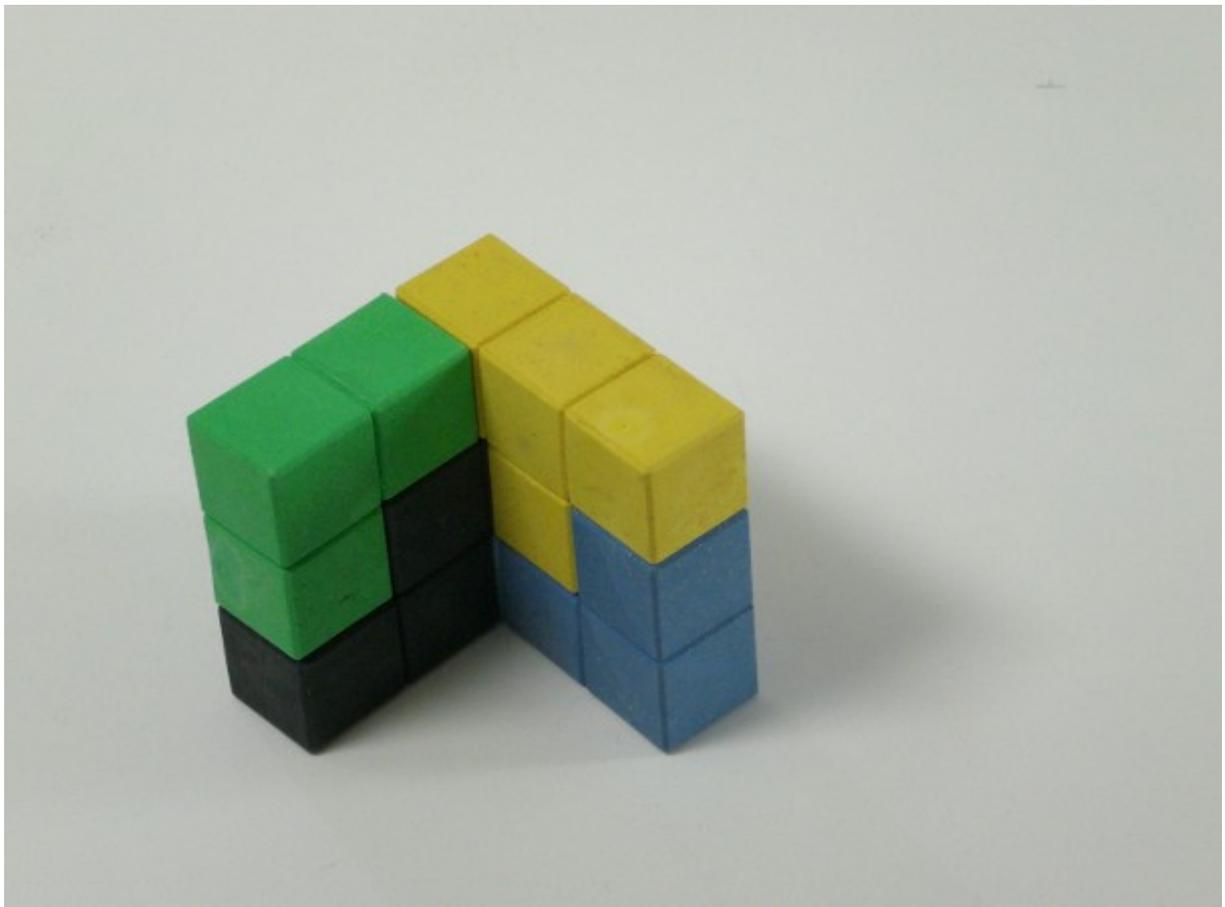
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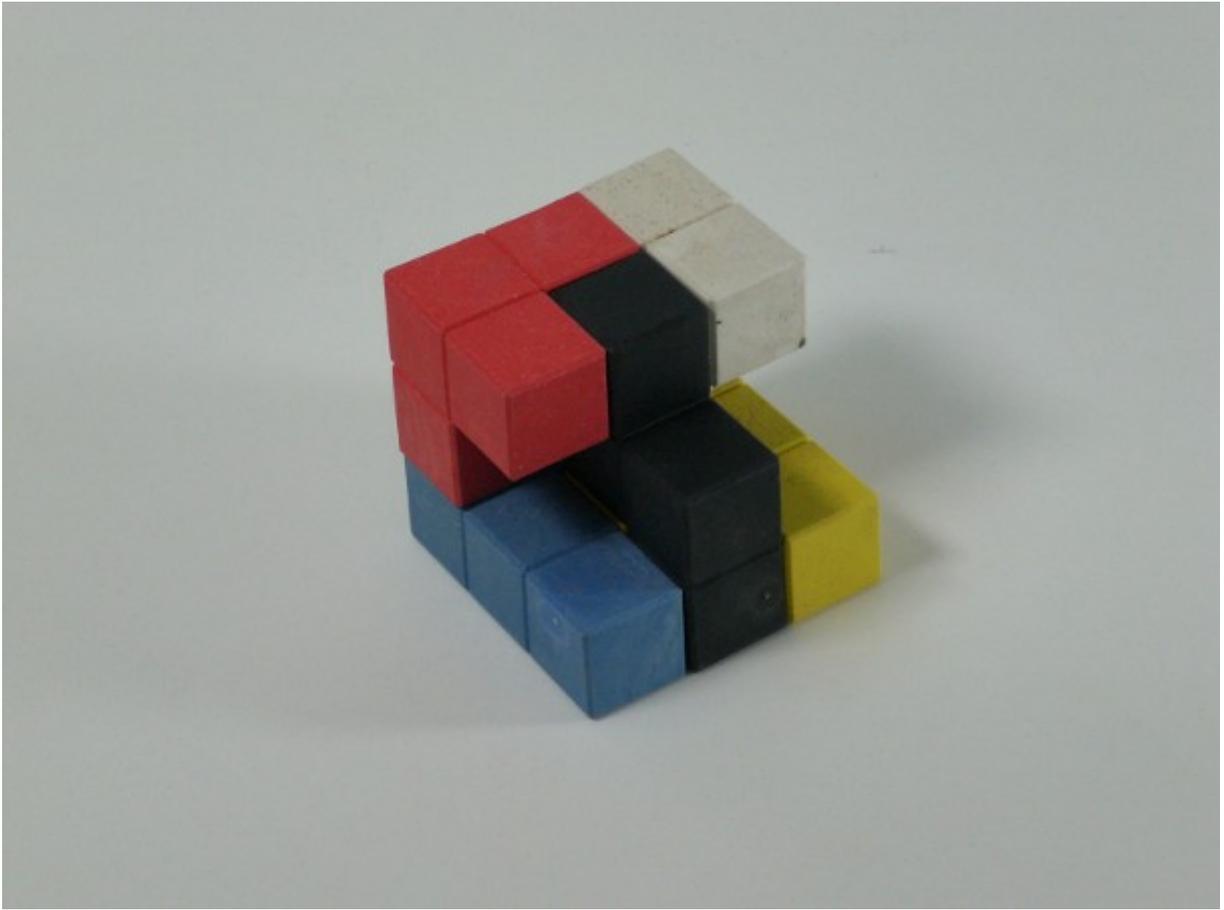
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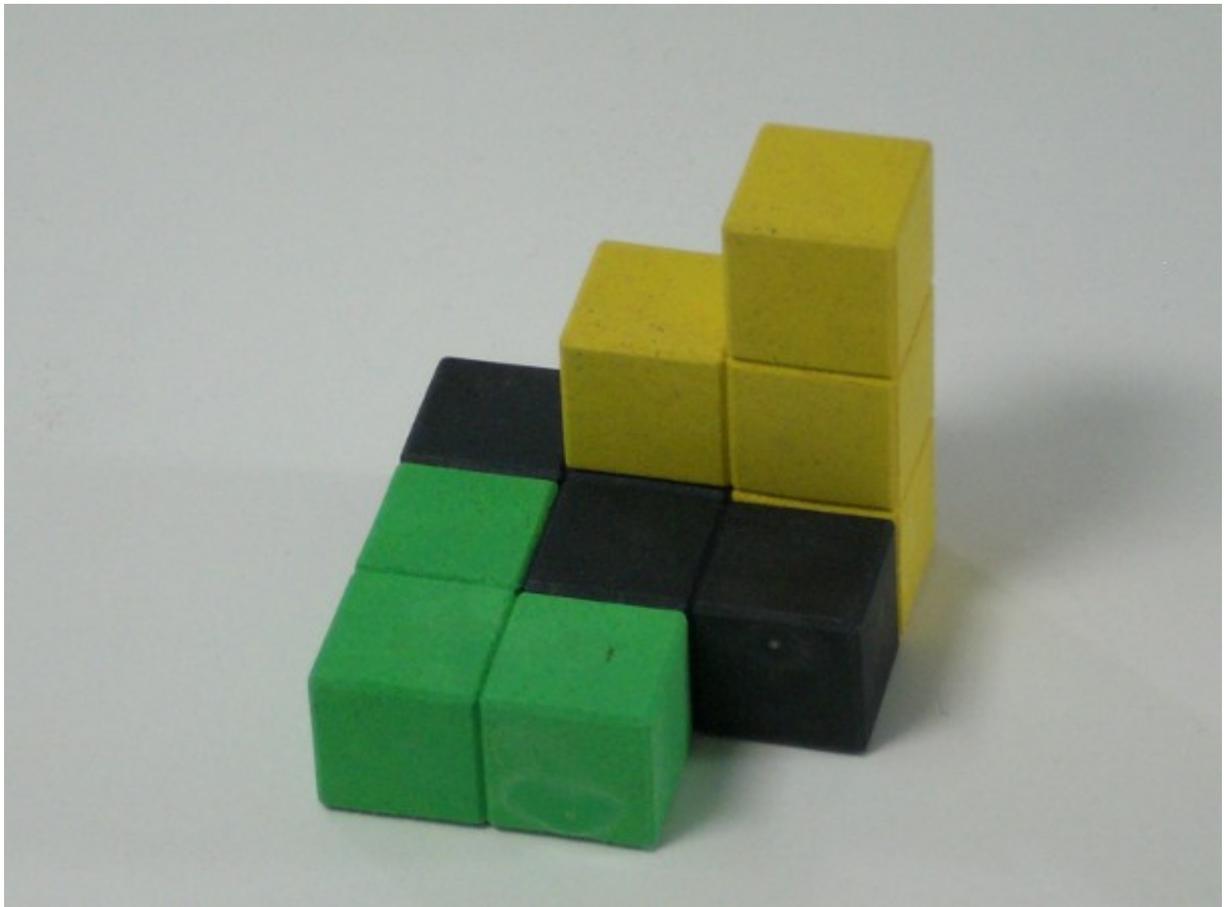
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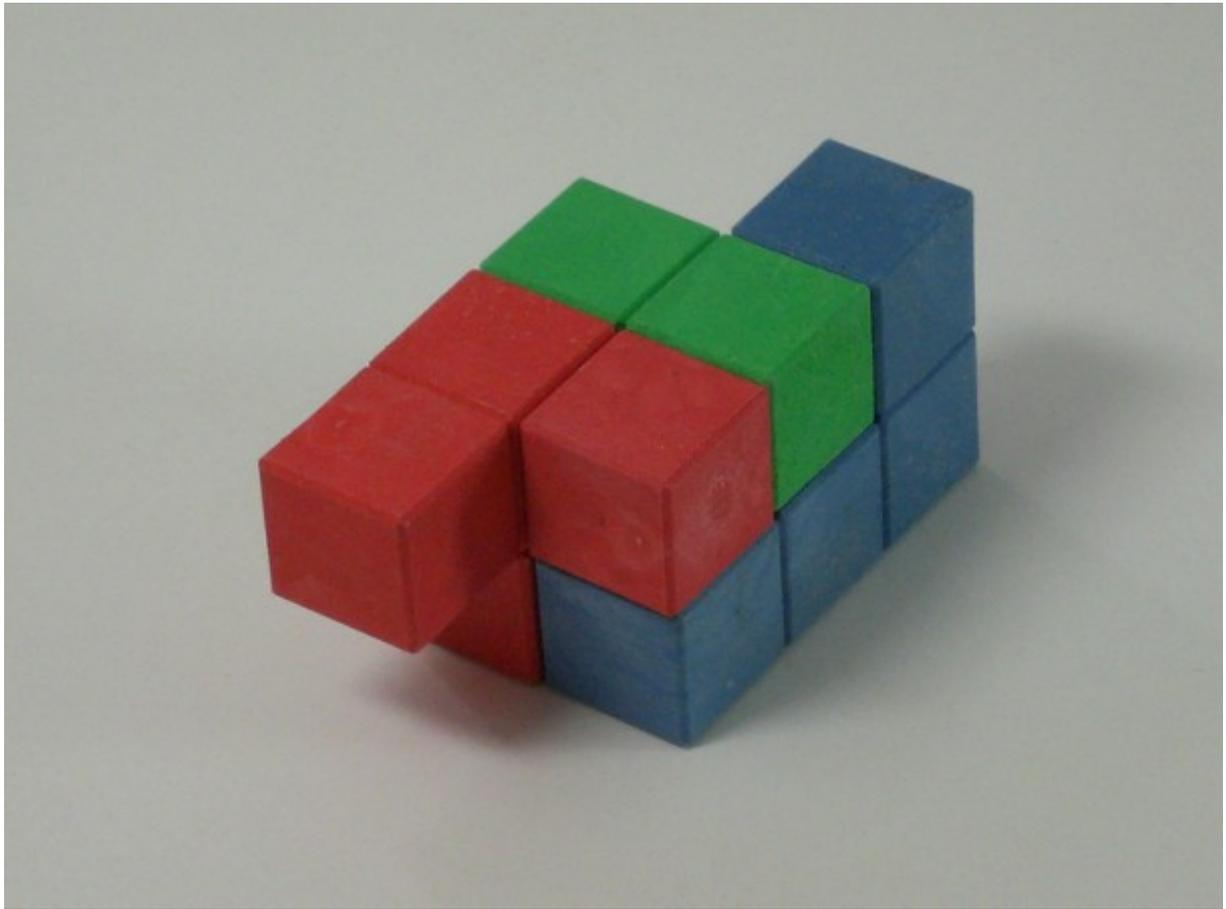
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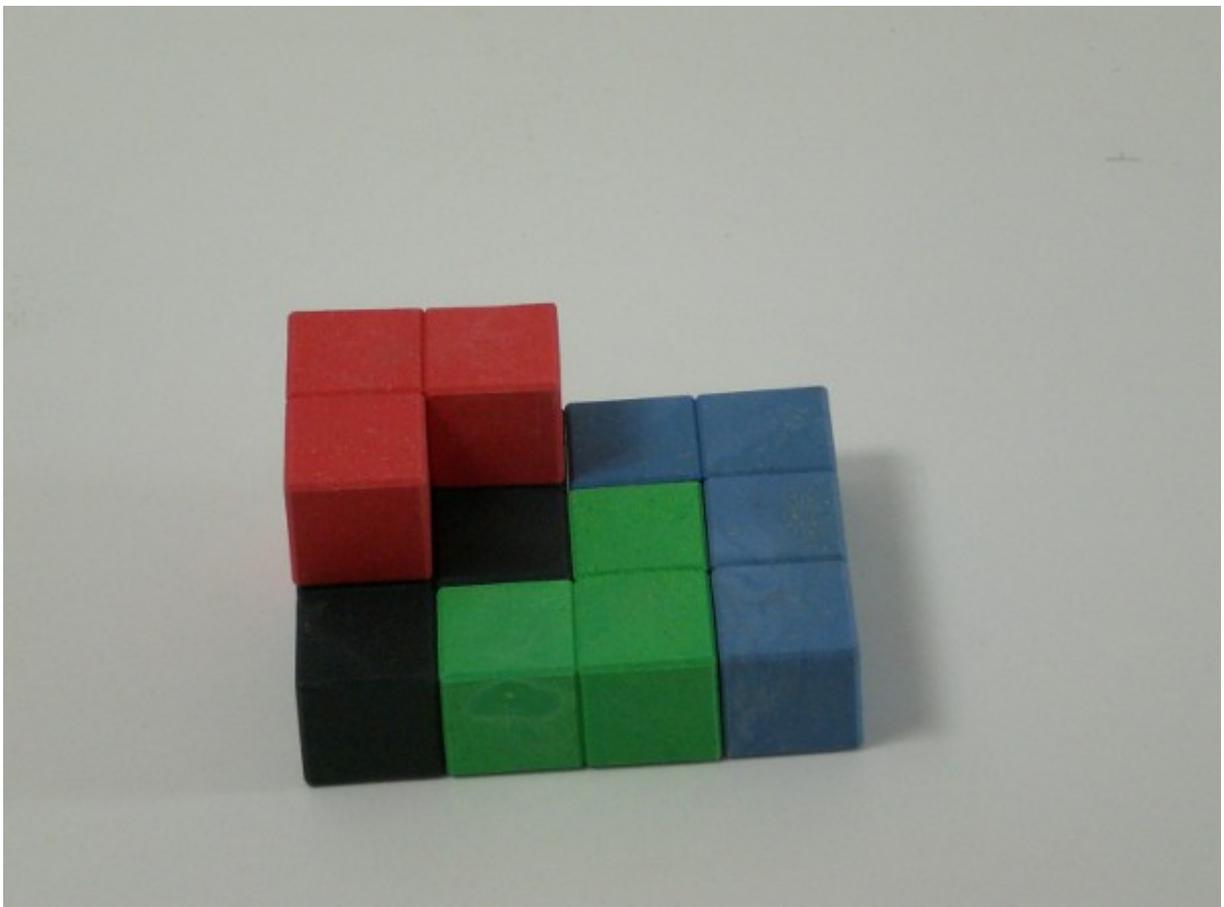
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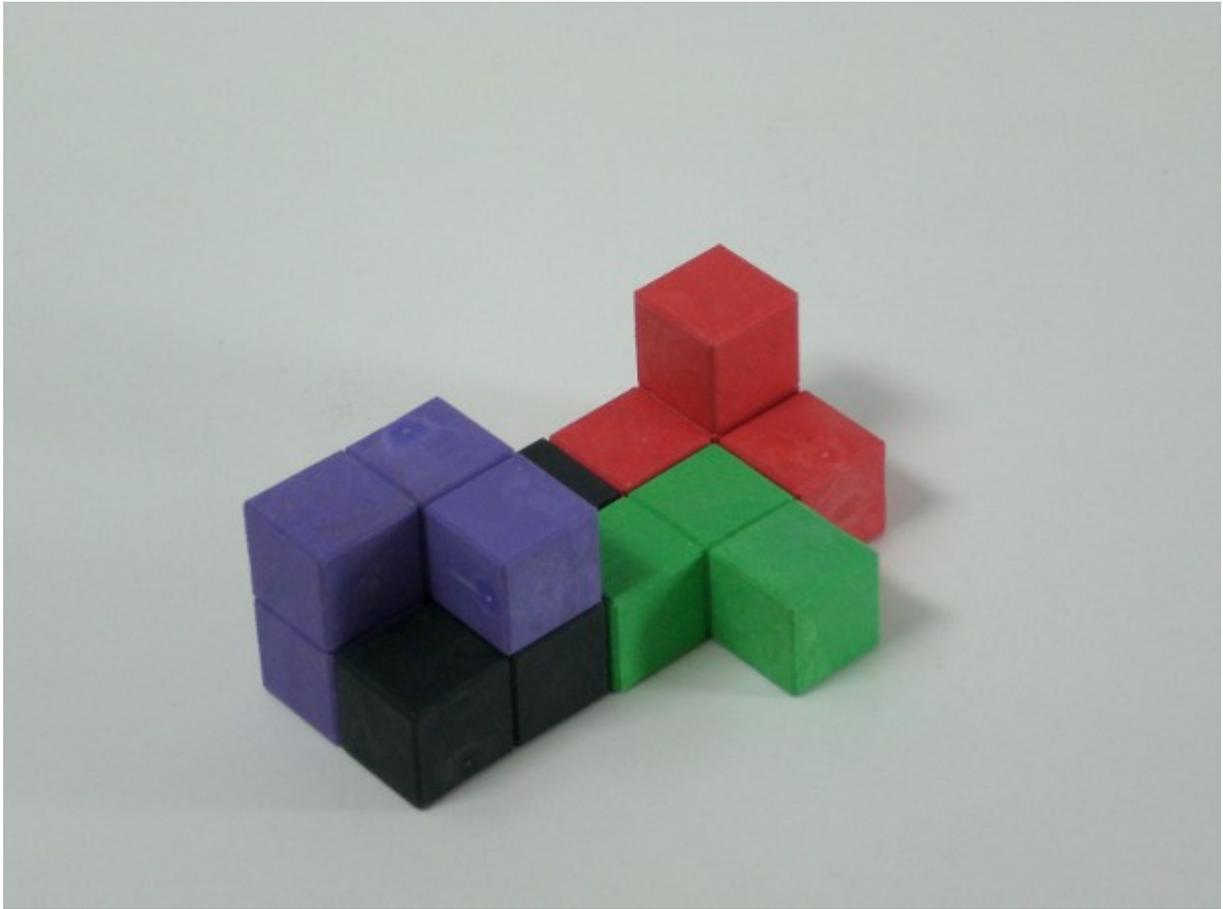
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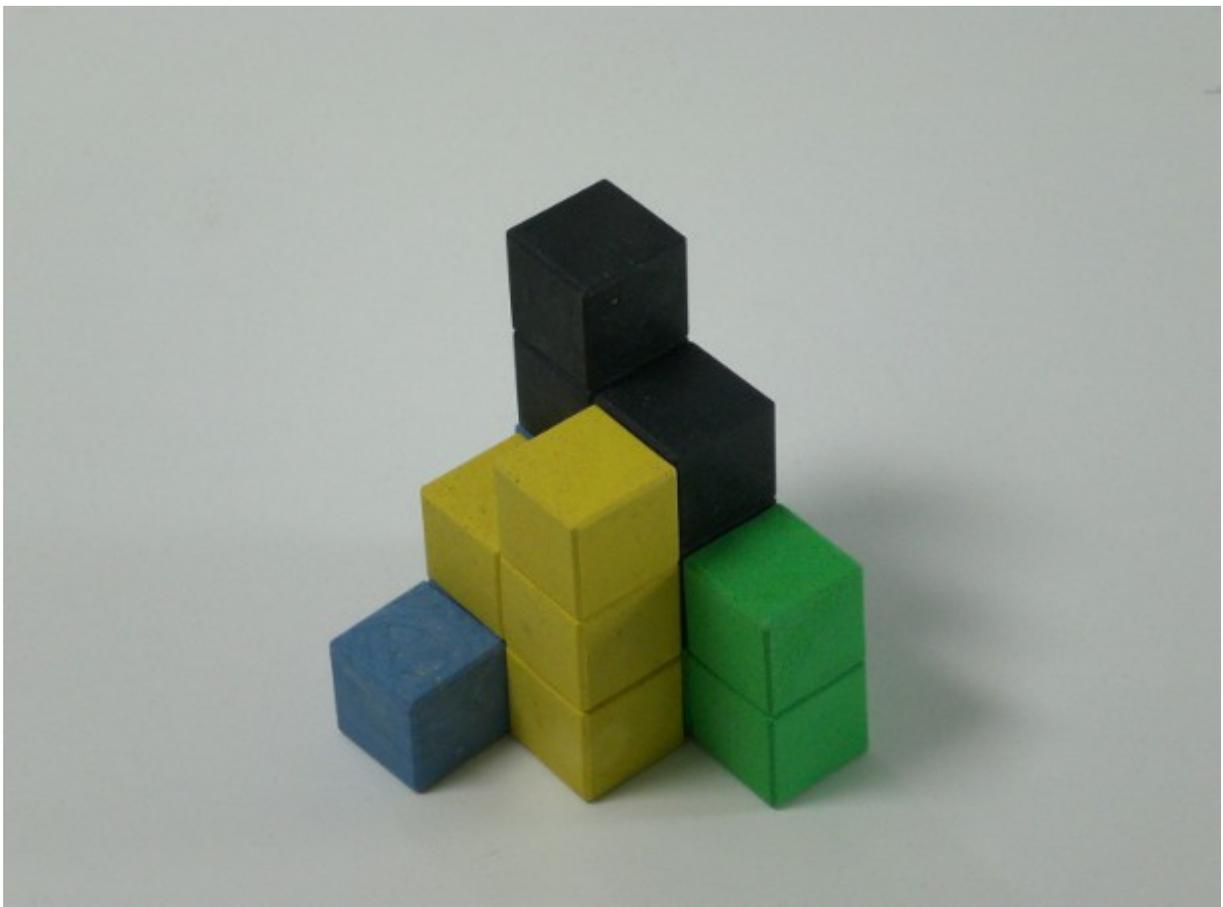
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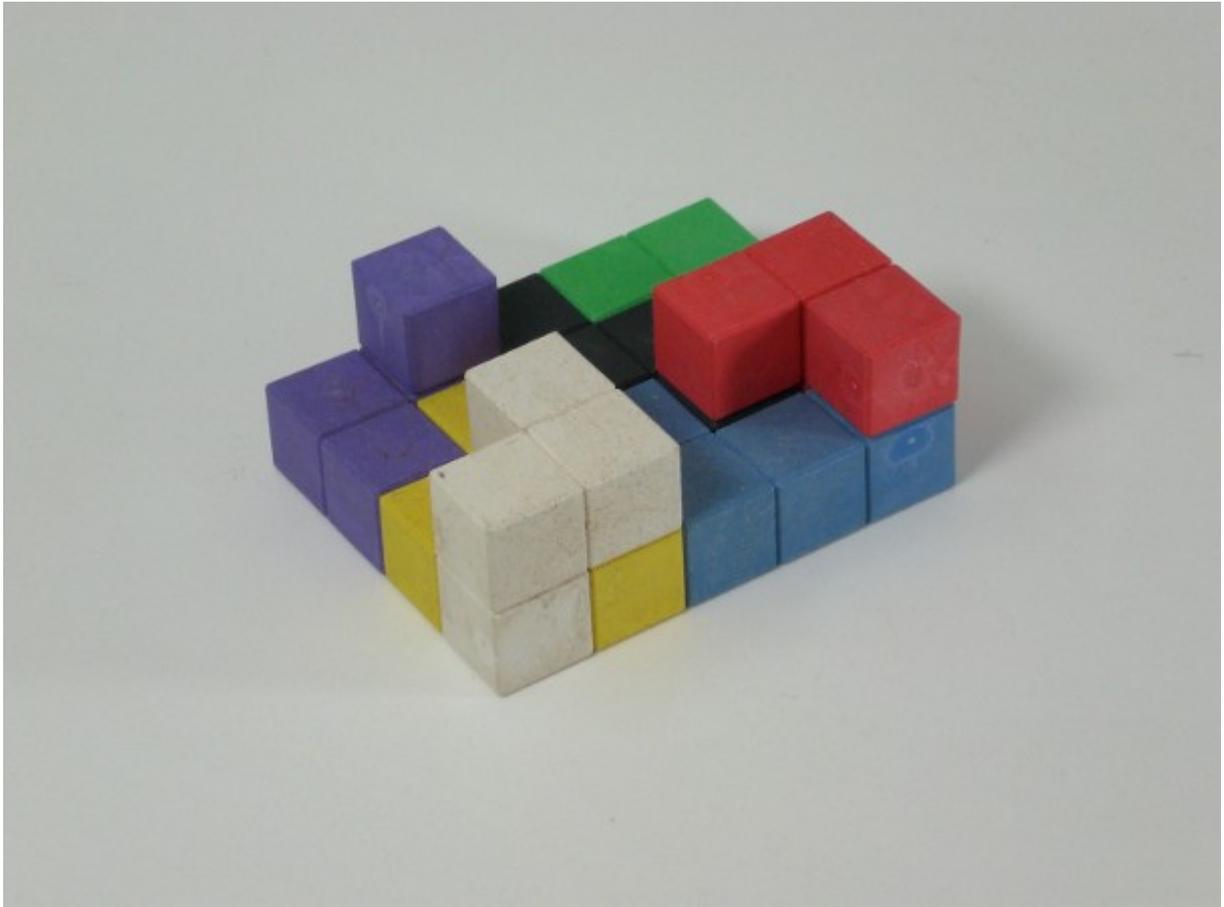
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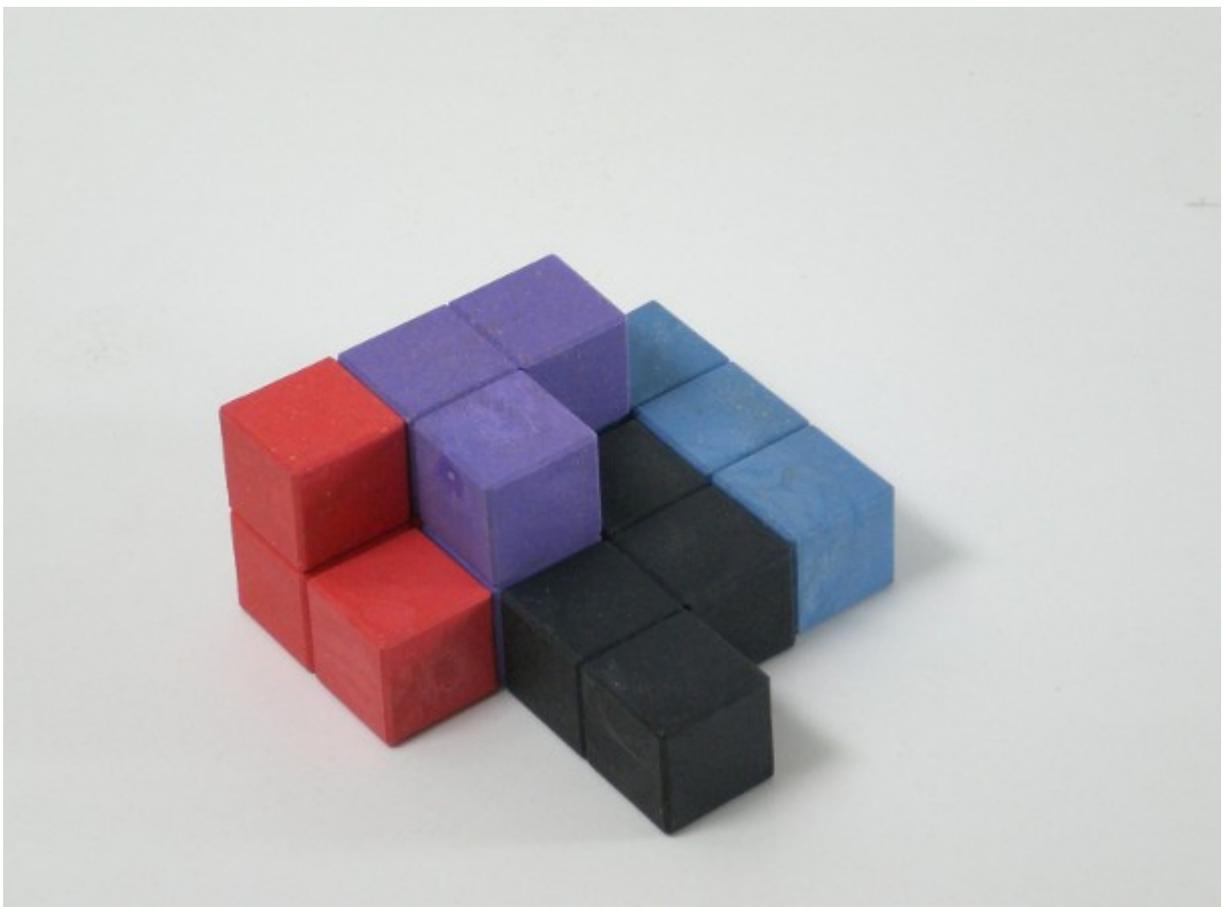
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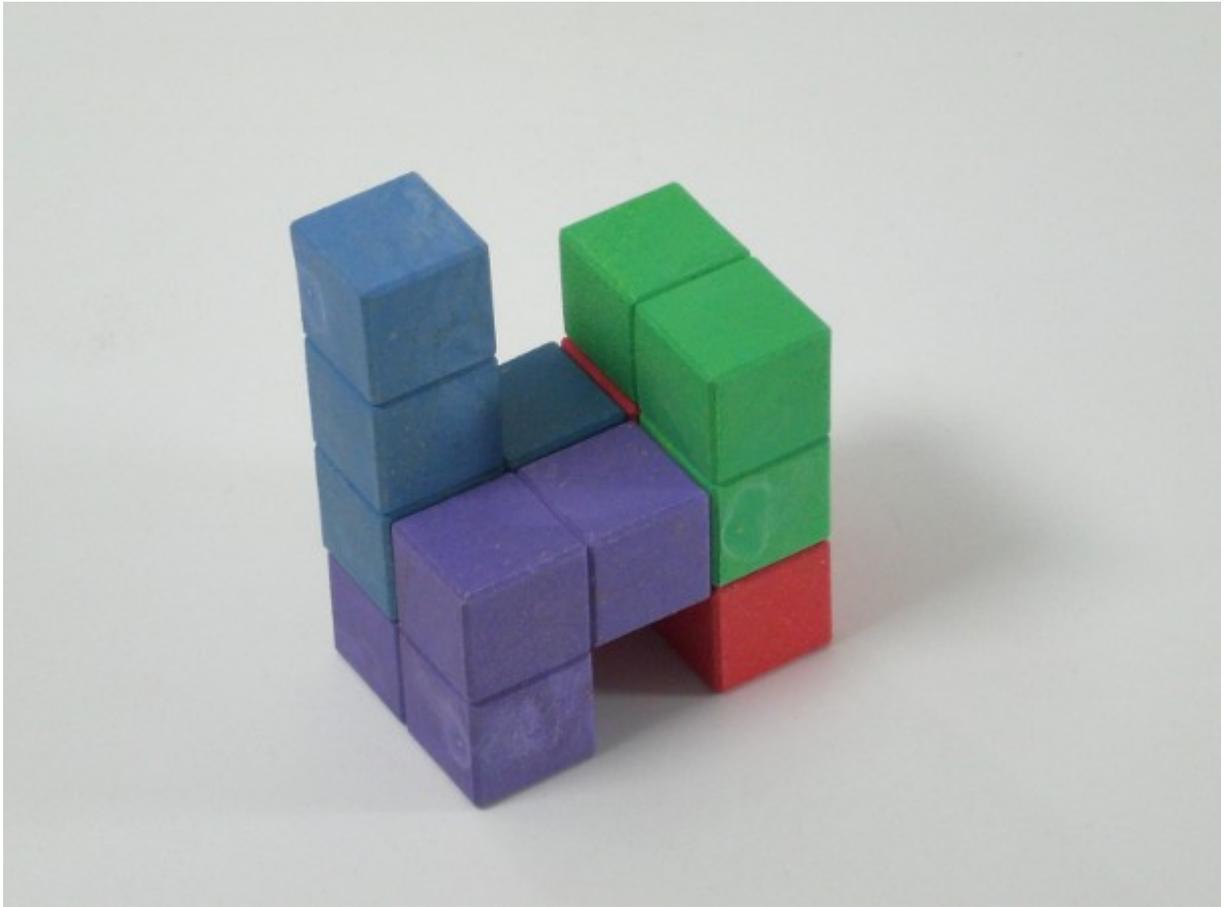
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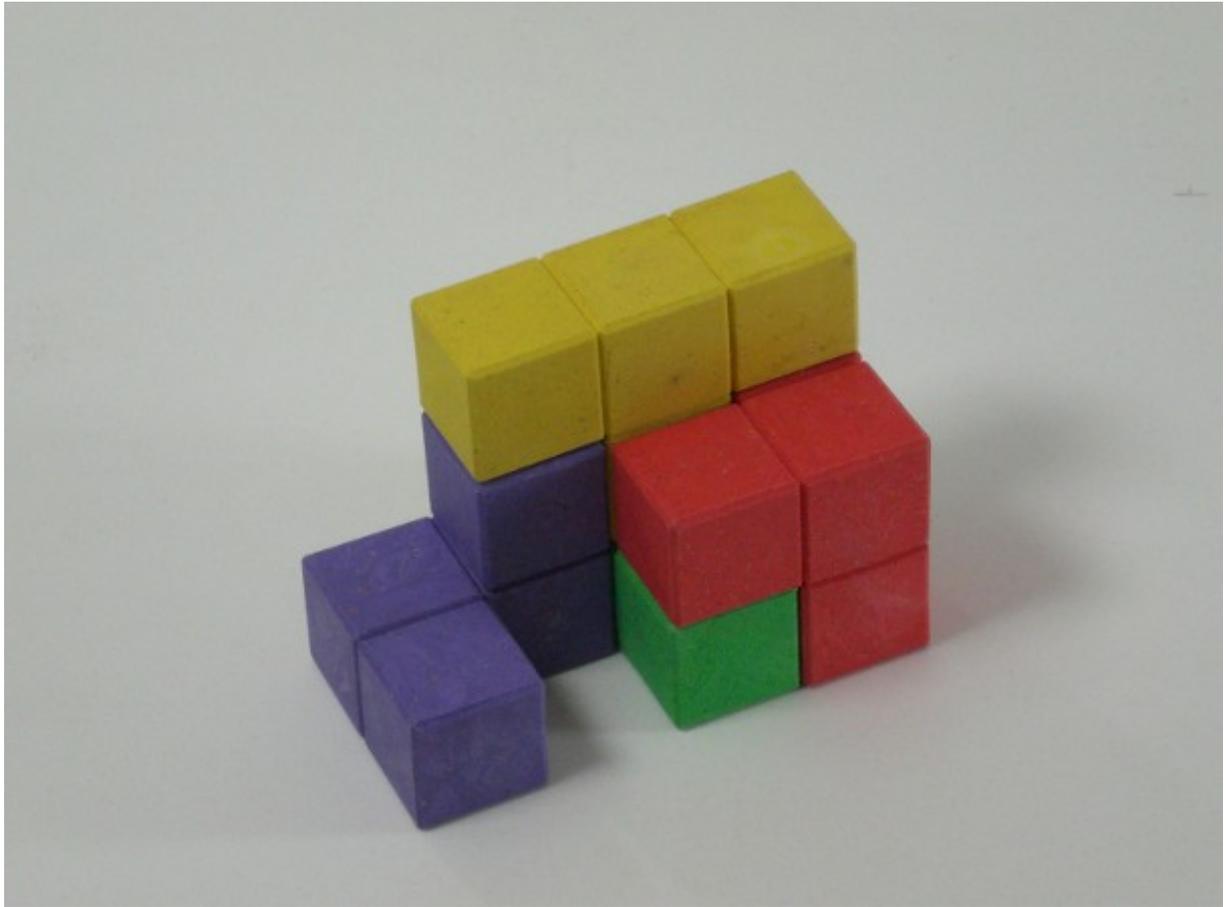
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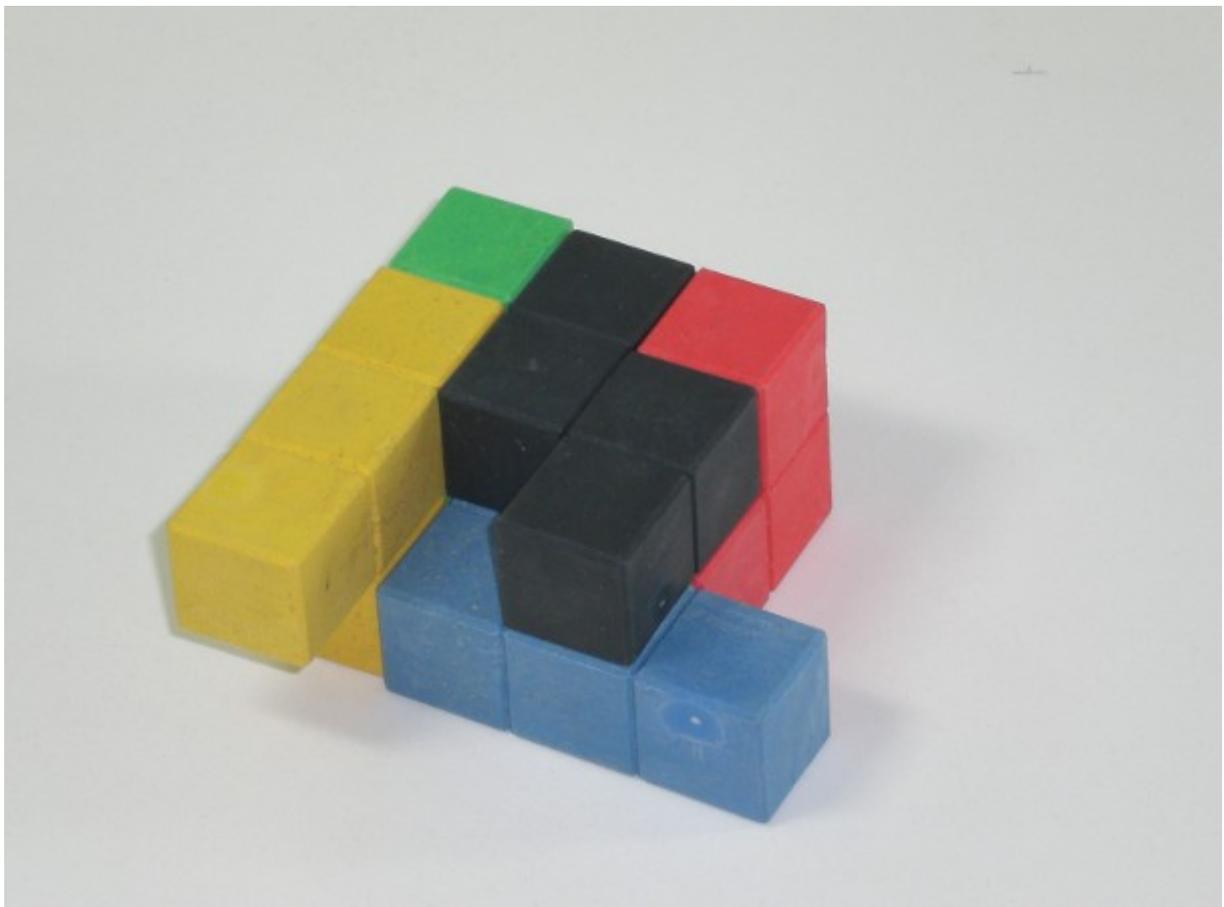
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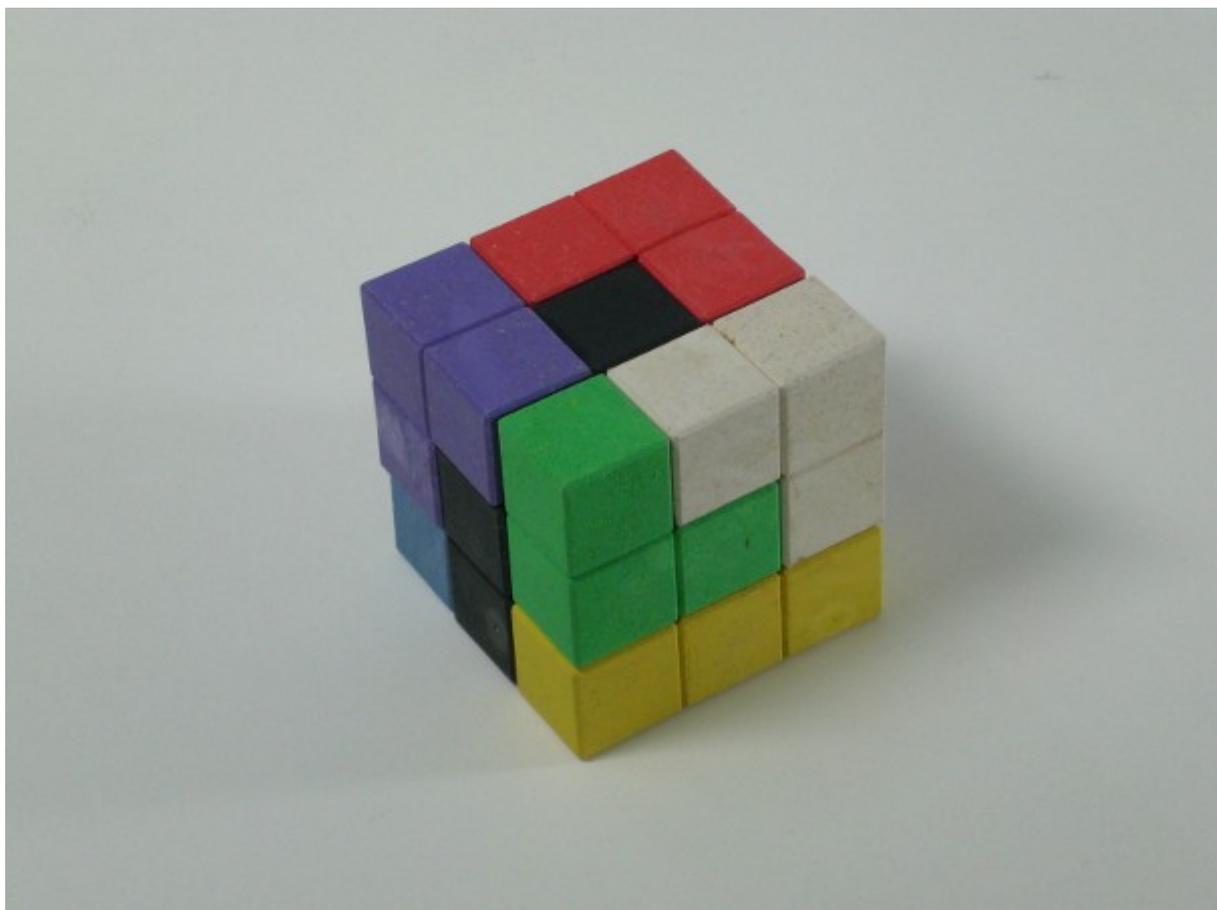
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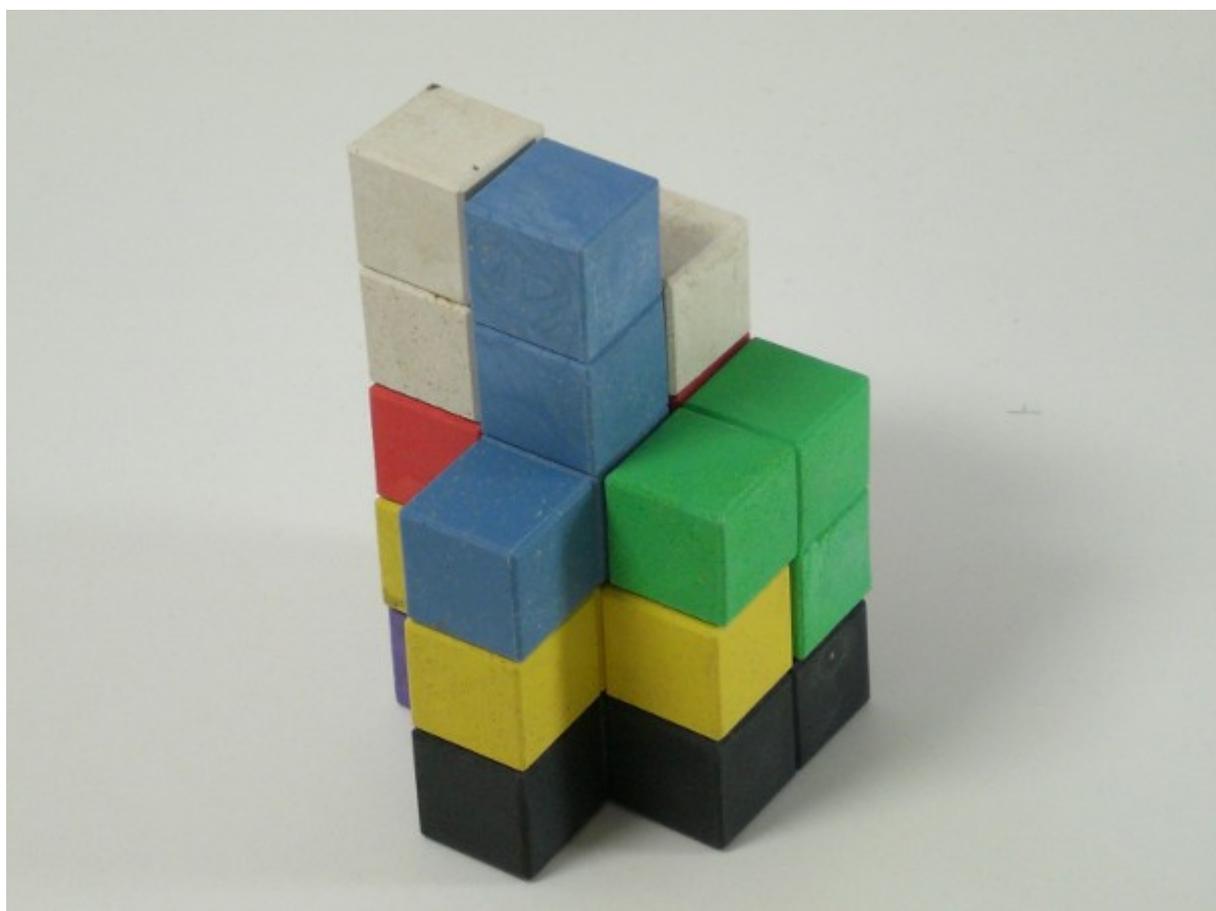
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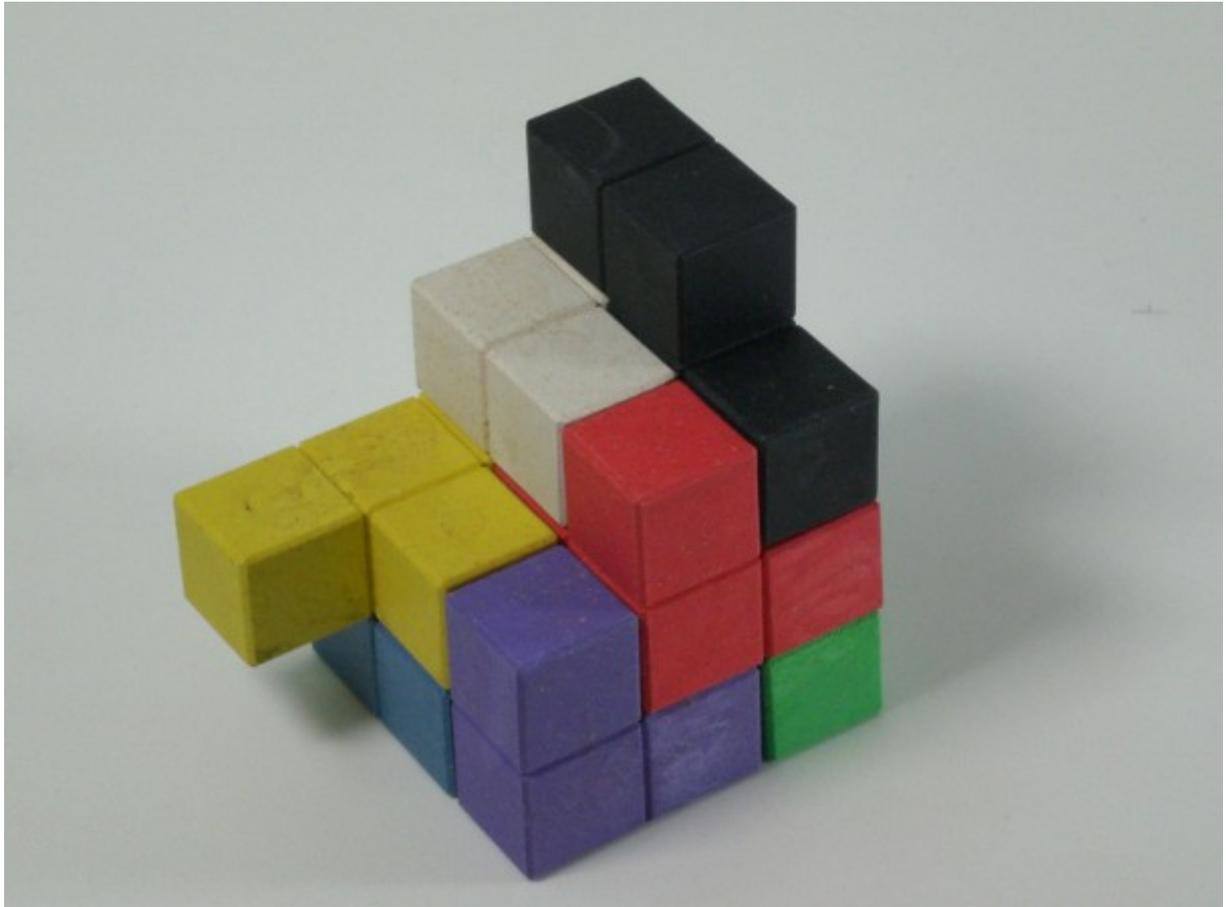
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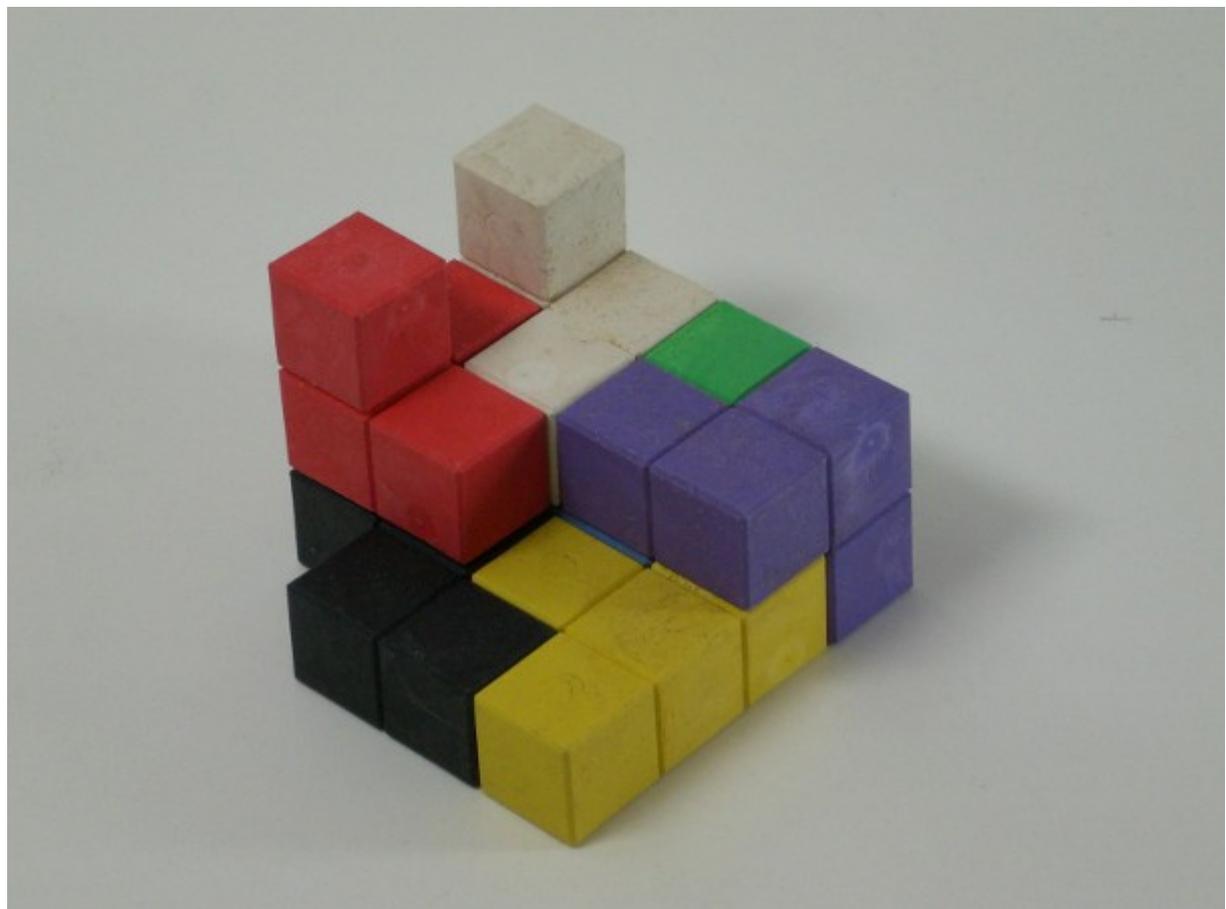
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