# 1 Supplemental Material

The following deltahedra and polyhedra are realized from cubic polyhedral graphs with up to 10 vertices. You can enable 3D contents by clicking each figure. Refer to the following paper for the detail information.

- Tsuruta, N., Mitani, J., Kanamori, Y., Fukui, Y. (2016). Random Realization of Polyhedral Graphs as Deltahedra, Journal of Geometry Graphics, 19(2), pp.227-236.
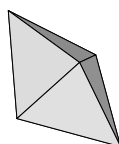
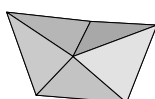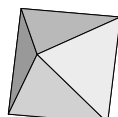Update 2021/1/6: corrected $(10_{193}, N)$

1.1 4-vertex
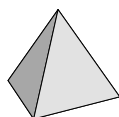
$(4_1, D)$

1.2 5-vertex

$(5_1, D)$

1.3 6-vertex

$(6_1, D)$ $(6_2, D)$

1.4 7-vertex
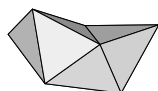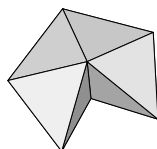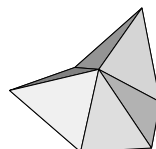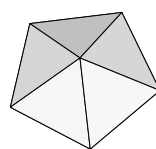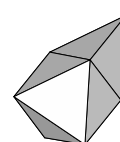
$(7_1, D)$ $(7_2, D)$ $(7_3, D)$ $(7_4, D)$ $(7_5, N)$

1.5 8-vertex
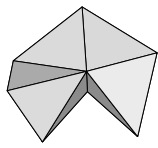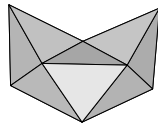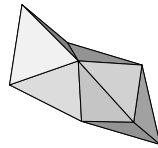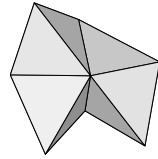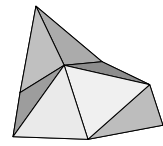
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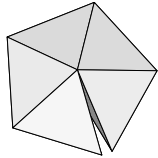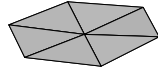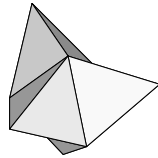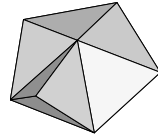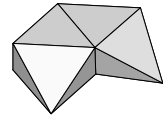
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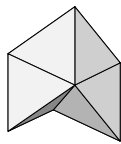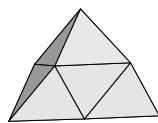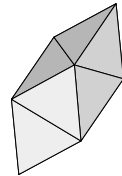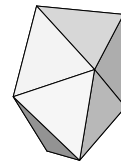
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1.6 9-vertex
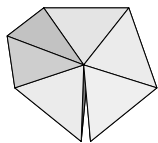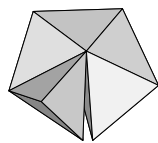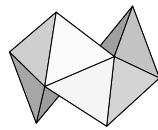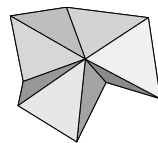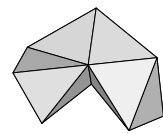
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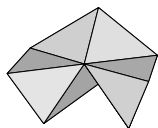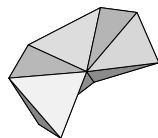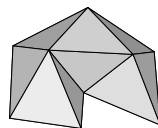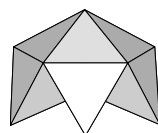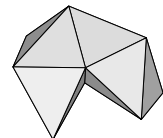
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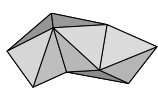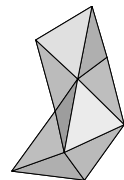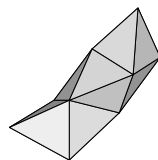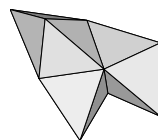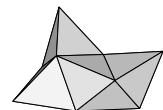
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$(9_{16}, D)$ $(9_{17}, D)$ $(9_{18}, D)$ $(9_{19}, D)$ $(9_{20}, D)$

$(9_{21}, D)$ $(9_{22}, D)$ $(9_{23}, D)$ $(9_{24}, N)$ $(9_{25}, N)$

$(9_{26}, N)$ $(9_{27}, D)$ $(9_{28}, D)$ $(9_{29}, D)$ $(9_{30}, D)$

$(9_{31}, D)$ $(9_{32}, D)$ $(9_{33}, D)$ $(9_{34}, D)$ $(9_{35}, N)$

$(9_{36}, N)$ $(9_{37}, N)$ $(9_{38}, N)$ $(9_{39}, N)$ $(9_{40}, D)$

$(9_{41}, D)$ $(9_{42}, N)$ $(9_{43}, N)$ $(9_{44}, N)$ $(9_{45}, N)$

$(9_{46}, N)$ $(9_{47}, N)$ $(9_{48}, D)$ $(9_{49}, D)$ $(9_{50}, D)$

1.7   10-vertex

$(10_1, D)$ $(10_2, D)$ $(10_3, D)$ $(10_4, D)$ $(10_5, D)$

$(10_6, D)$ $(10_7, D)$ $(10_8, D)$ $(10_9, D)$ $(10_{10}, D)$

$(10_{11}, D)$ $(10_{12}, D)$ $(10_{13}, D)$ $(10_{14}, D)$ $(10_{15}, D)$

$(10_{16}, D)$ $(10_{17}, D)$ $(10_{18}, D)$ $(10_{19}, D)$ $(10_{20}, D)$

$(10_{21}, D)$ $(10_{22}, D)$ $(10_{23}, D)$ $(10_{24}, D)$ $(10_{25}, D)$

$(10_{26}, D)$ $(10_{27}, D)$ $(10_{28}, D)$ $(10_{29}, D)$ $(10_{30}, D)$

$(10_{31}, D)$ $(10_{32}, D)$ $(10_{33}, D)$ $(10_{34}, D)$ $(10_{35}, D)$

$(10_{36}, D)$ $(10_{37}, D)$ $(10_{38}, D)$ $(10_{39}, D)$ $(10_{40}, D)$

$(10_{41}, D)$ $(10_{42}, D)$ $(10_{43}, D)$ $(10_{44}, D)$ $(10_{45}, D)$

$(10_{46}, D)$

$(10_{47}, D)$

$(10_{48}, D)$

$(10_{49}, D)$

$(10_{50}, D)$
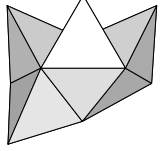
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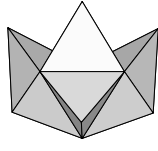
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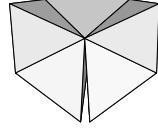
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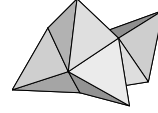
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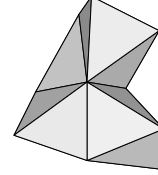
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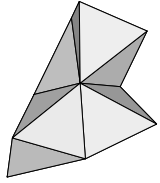
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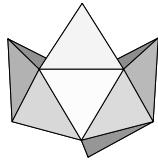
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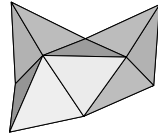
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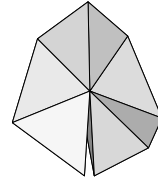
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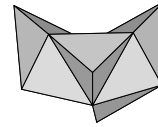
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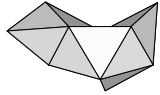
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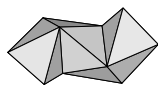
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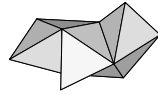
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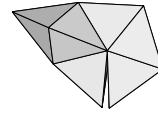
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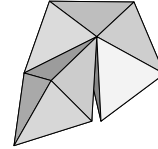
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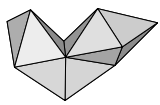
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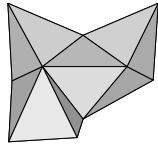
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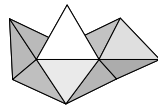
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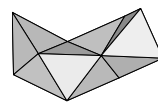
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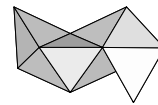
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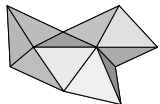
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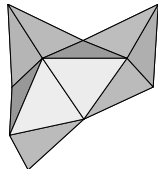
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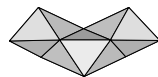
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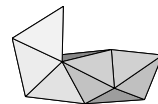
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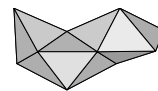
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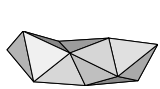
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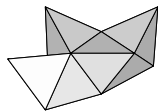
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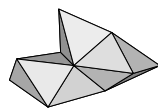
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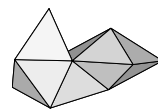
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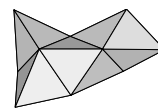
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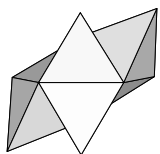
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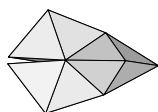
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$(10_{83}, D)$

$(10_{84}, D)$

$(10_{85}, D)$

5
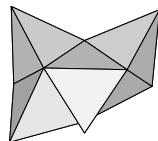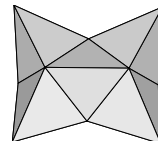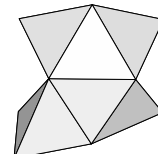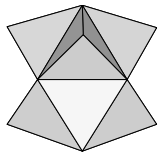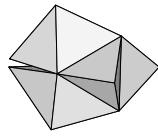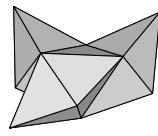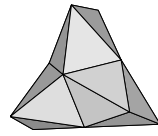
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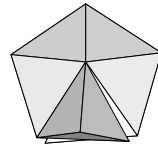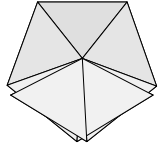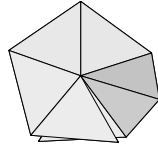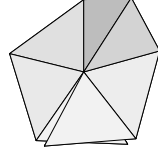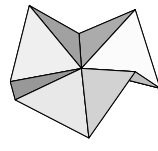
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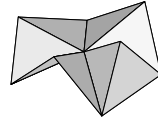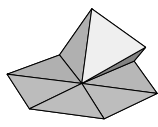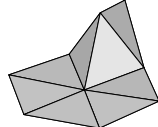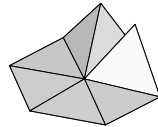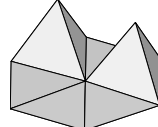
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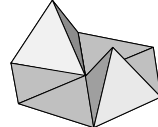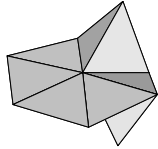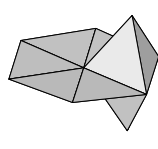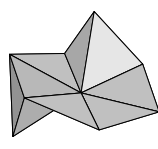
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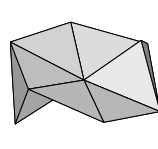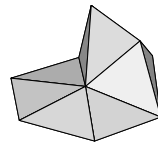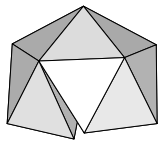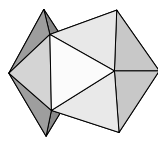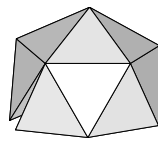
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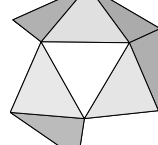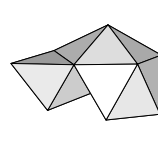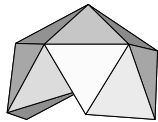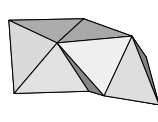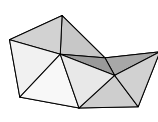
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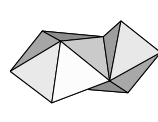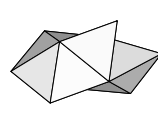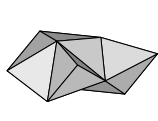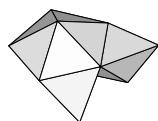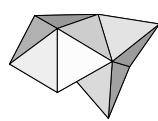
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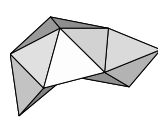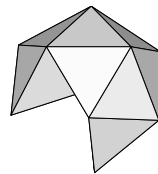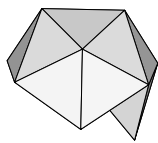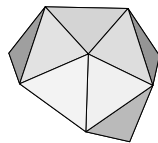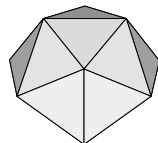
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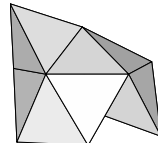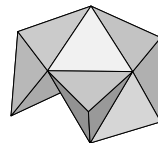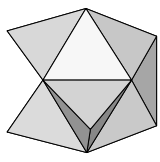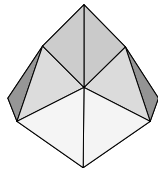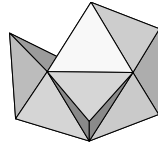
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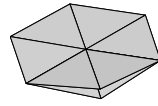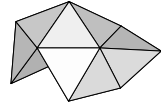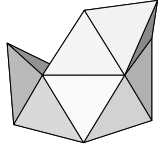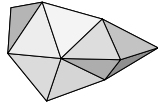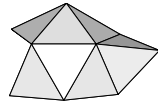
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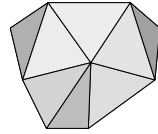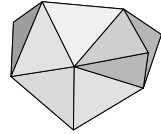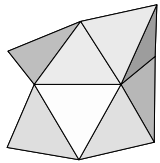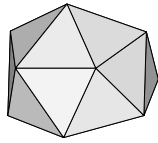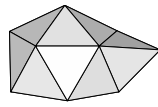
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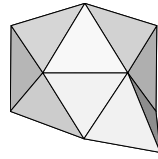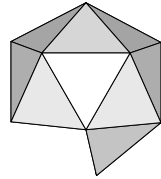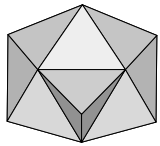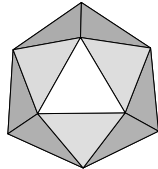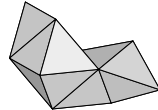
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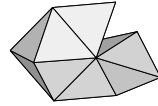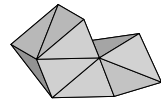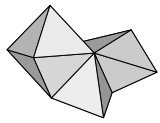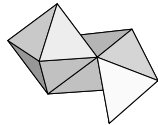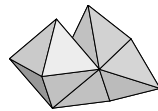
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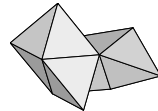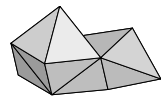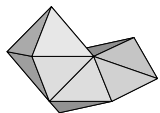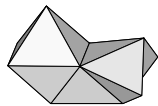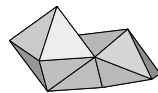
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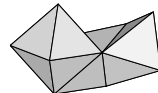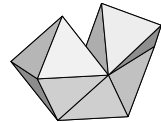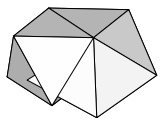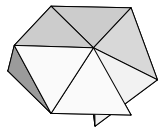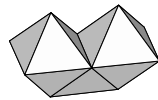
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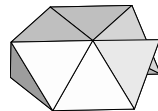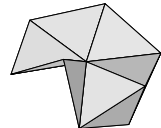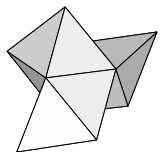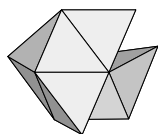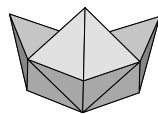
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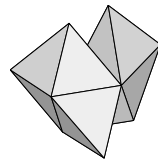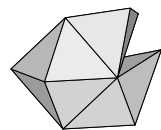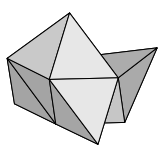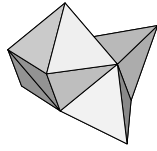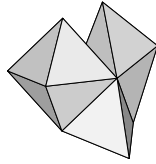
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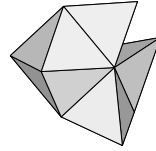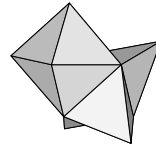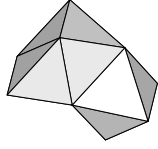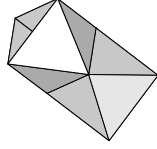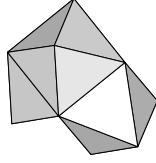
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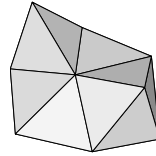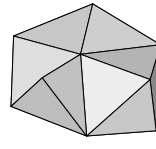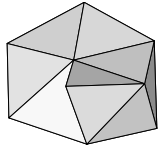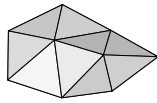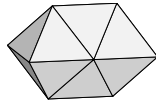
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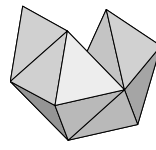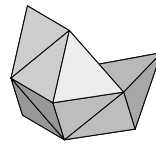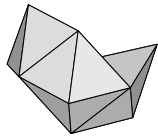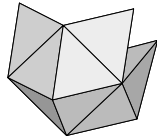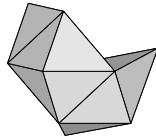
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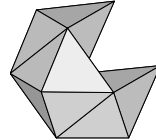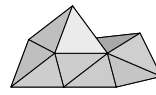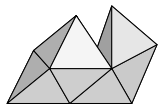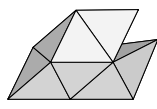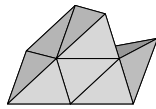
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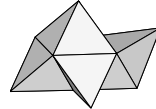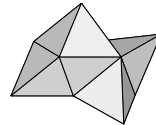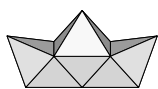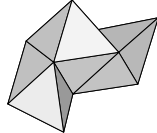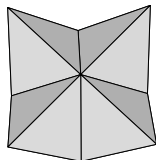
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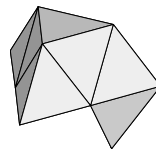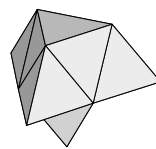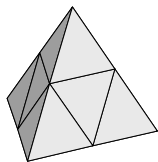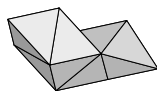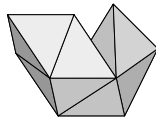
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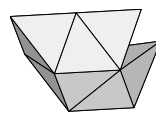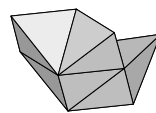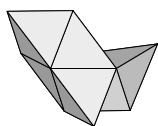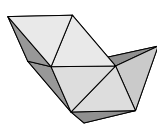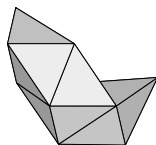
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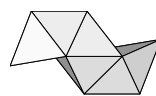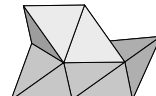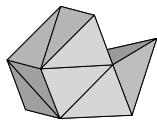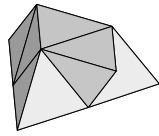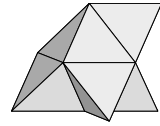
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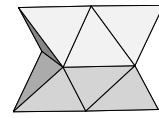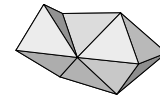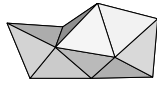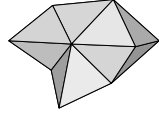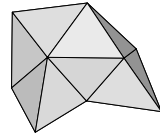
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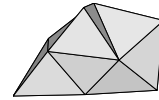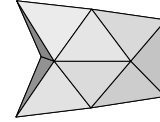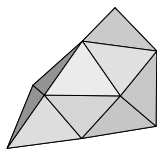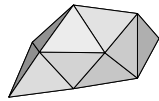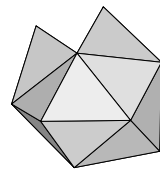
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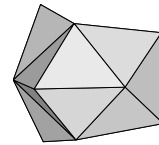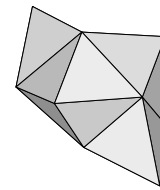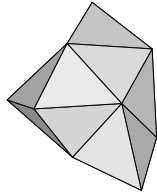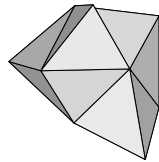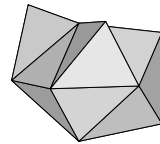
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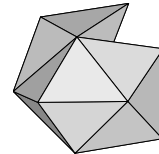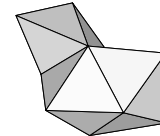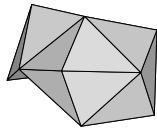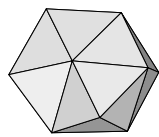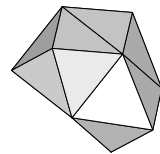
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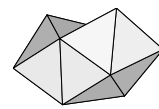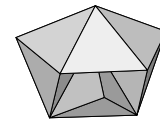
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