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Algorithm 1: Count Fixed Polyominoes
 CountFixedPolyominoes(G, untried, n, p)\rightarrow r
     Input: G = (V, E), a graph
             untried, a set of nodes
             n, the size of polyominos
             p, the current polyomino
     Output: r, the number of polyominoes of size n
     r \leftarrow 0
     while not IsSetEmpty(untried) do
 2
         u \leftarrow \mathsf{RemoveFromSet}(untried)
 3
         AppendToList(p, u)
 4
         if SizeList(p) = n then
             r \leftarrow r + 1:
 6
         else
 7
              new\ neighbors \leftarrow CreateSet()
             foreach v in AdjacencyList(G, u) do
 9
                 if v \notin untried and v \notin p and v \notin Neighbors(p \setminus u) then
10
                      AddToSet(new_neighbors, v)
11
             new untried \leftarrow untried + new neighbors
12
             r \leftarrow r + \text{CountFixedPolyominoes}(G, new\_untried, n, p)
13
         RemoveFromList(p, u)
14
15
     return r
```