



Consider ways to lay matchesticks (of unit length) on the $n \times m$ grid in such a way as to form a maze.

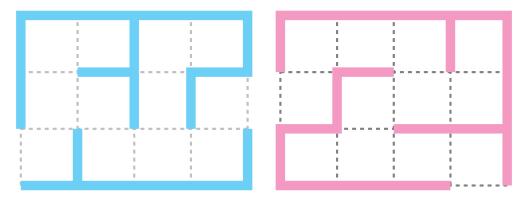


Figure 1: Two mazes on a (5×4) -cell grid.

Question. How many distinct mazes can be drawn on the grid?

Related.

- 1. What if every 1×1 cell must be reachable?
- 2. What if there are no dead ends?
- 3. What if there are to be identically k dead ends?
- 4. What if paths that loop are not allowed?
- 5. What if the entrance and exit have prescribed positions?
- 6. What if this is done on a hexagonal or triangular grid? On a torus?

References.

Problem 64.