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Question 2

1.

There are $m * n - k$ tiles

2.

We need to place $m * n - k$ tiles in $m * n$ squares

so there are $(m * n)! / ((m * n) - (m * n - k))!$ possible states

3.

A, B, C represents the names of the nodes, and according to 2., we should have 24 possible states.

The pic shows the states generated by move one node clockwise.

