![Graphical user interface, text, application

Description automatically generated]()

Problem statement.

3 moves knight moves 1 step ahead then 2 steps right or left.

Here bfs will work.

Knight can move in 8 direction from any position up, down, left, right along with other 2 position in L-shape move in each knight move.

![A picture containing diagram

Description automatically generated]()

See above how 8 direction.

Shape

Description automatically generated

Like here from 0,0 only 2 position can go- 1,2 and 2,1.

Put this in queue now run again and remove 0,0 now in queue remain

1,2 and 2,1 make 1 in matrix too.

![A picture containing diagram

Description automatically generated]()

Check for 2,1 where it can go on map and put in queue and vis not 1 then only.

2,1 can go to 0,2 and 0,0 but 0,0 is 1 as visited hence can’t put it in queue but can put 0,2 in queue.

Put 2 in that position visited

![A picture containing graphical user interface

Description automatically generated]()

1,2 same 0,0 or 2,0 here 0,0 not and hence 0,2 put in queue.

![A screenshot of a video game

Description automatically generated]()

Here for every 1 loop or min steps it works for queue. Hence will work till it reaches n-1,n-1.

![A screenshot of a video game

Description automatically generated]()it reaches n-1,n-1 from 1,0.since it asked min steps to reach from 0,0 to n-1,n-1.

Code:

![Text

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![Text

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Time and space is n^2.