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#course number: 27177

#lab section: Monday 1:30 - 2:50 - 28623

b)

The number of ways for the grid 3x3 are 10  
The number of ways for the grid 4x4 are 35  
The number of ways for the grid 10x12 are 352716

c)

There will be two base cases in this algorithm:

* To check if we reach to the destination
* To check if we reach out of the grid ie - row < 0 or col >= n.4.

d)

In this algorithm at every step we have to take the decision whether:

* we want to go up to the north
* or we can move to east

The termination conditions will be if we reach either to position matrix(0, n) where n is the number of columns or we reach out of the grid.

The running time of this algorithm is O(m\*n) where m and n are number of row and column in the grid.