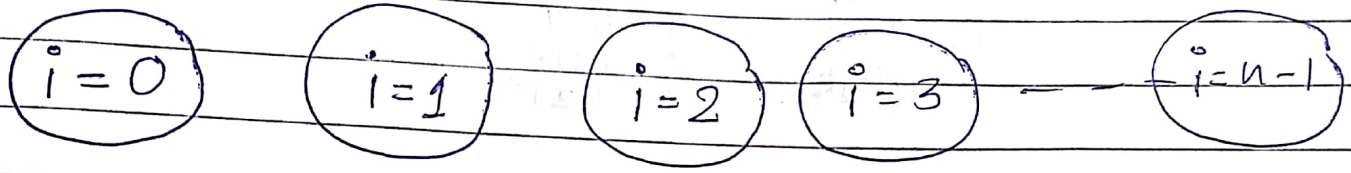
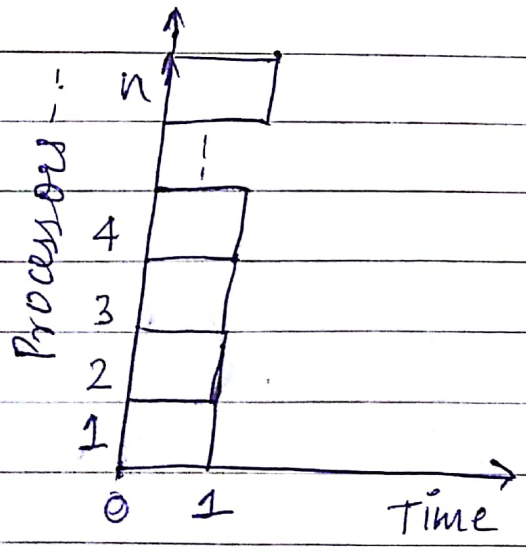
Question 1:



Work = n
Width = n
Critical Path = 1



Question 2:

1) Time Complexity = $O(nm)$

2) Considering $n = 4, M = 4$

[k=1] [i,j]

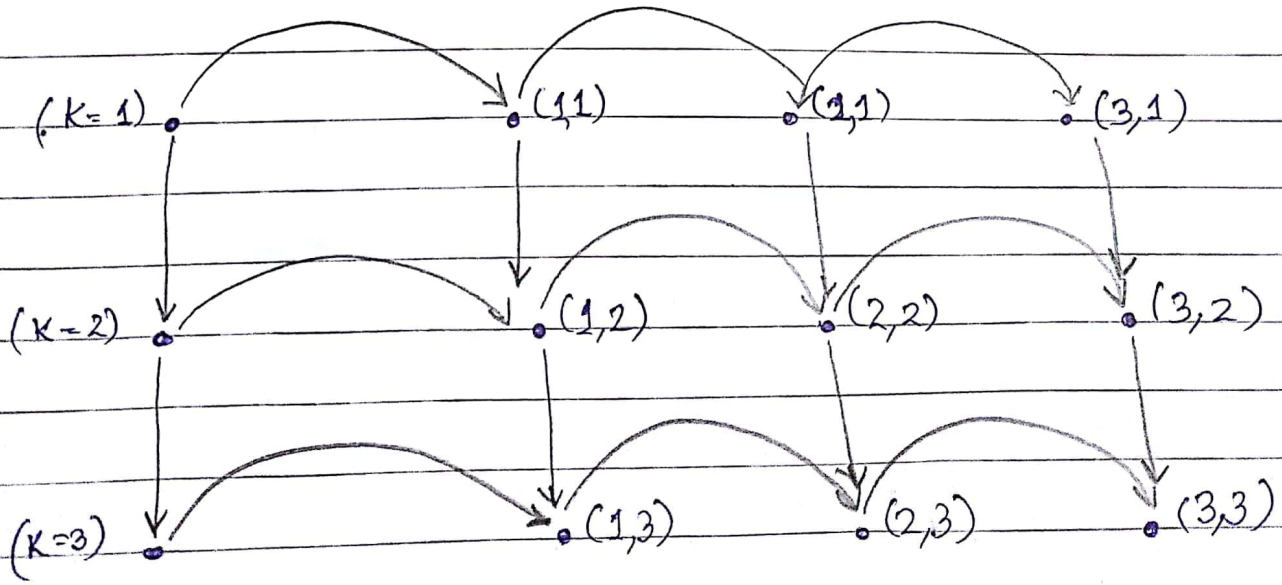
- (0,1)
  F[0][1] W
  F[0][0] R
  C[0][1] R
- (1,1)
  F[1][0] W
  F[0][0] R
  C[1][0] R
  F[1][1] W
  F[0][1] R
  F[1][0] R
  C[1][1] R
- (2,1)
  F[2][1] W
  F[2][0] W
  C[2][0] R
  F[1][0] R
  F[1][1] R
  F[2][0] R
  C[2][1] R
- (3,1)
  F[3][1] W
  F[2][0] R
  C[3][1] R
  F[3][0] W
  F[2][1] R
  F[3][0] R
  C[3][1] R

[k=2]

- (0,2)
  F[0][2] W
  F[0][1] R
  C[0][2] R
- (1,2)
  F[1][2] W
  F[0][2] R
  F[1][1] R
  C[1][2] R
- (2,2)
  F[2][2] W
  F[1][2] R
  F[2][1] R
  C[2][2] R
- (3,2)
  F[3][2] W
  F[2][2] R
  F[3][1] R
  C[3][2] R

[k=3]

- (0,3)
  F[0][3] W
  F[0][2] R
  C[0][3] R
- (1,3)
  F[1][3] W
  F[0][3] R
  F[1][2] R
  C[1][3] R
- (2,3)
  F[2][3] W
  F[1][3] R
  F[2][2] R
  C[2][3] R
- (3,3)
  F[3][3] W
  F[2][3] R
  F[3][2] R
  C[3][3] R



Work = $(n-1)(m-1) + m - 1$

Width = $m - 1$

Critical Path = $(m-1) + (n-1)$