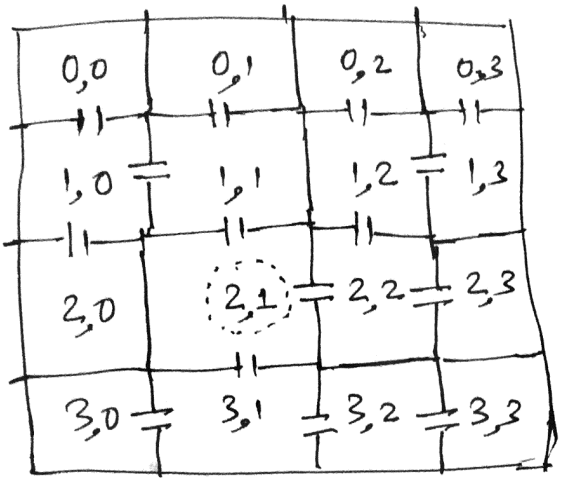
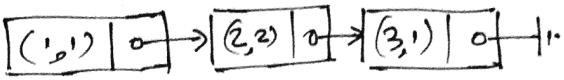
(a)

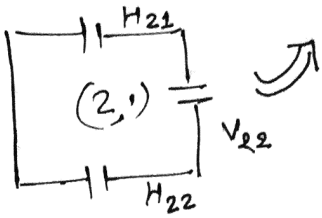


at (2,1) linked list to store open doors:

(e) (2,1)



(d)



Neighboring room Connectivity through H & V.

$$V_{4\times5} = \begin{bmatrix} 0 & 0 & 0 & 0 & 0 \\ 0 & 1 & 0 & 1 & 0 \\ 0 & 0 & 1 & 1 & 0 \\ 0 & 1 & 1 & 1 & 0 \end{bmatrix}$$

(c)

$$H_{5\times4} = \begin{bmatrix} 0 & 0 & 0 & 0 \\ 1 & 1 & 1 & 1 \\ 1 & 1 & 1 & 0 \\ 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 \end{bmatrix}$$

(b)

(a). An example 4x4 maze

(b) & (c). H & V as read

(d) focus on room (2,1), open doors read from H & V

(e) Creating linked list at (2,1) to store the connected rooms with open doors