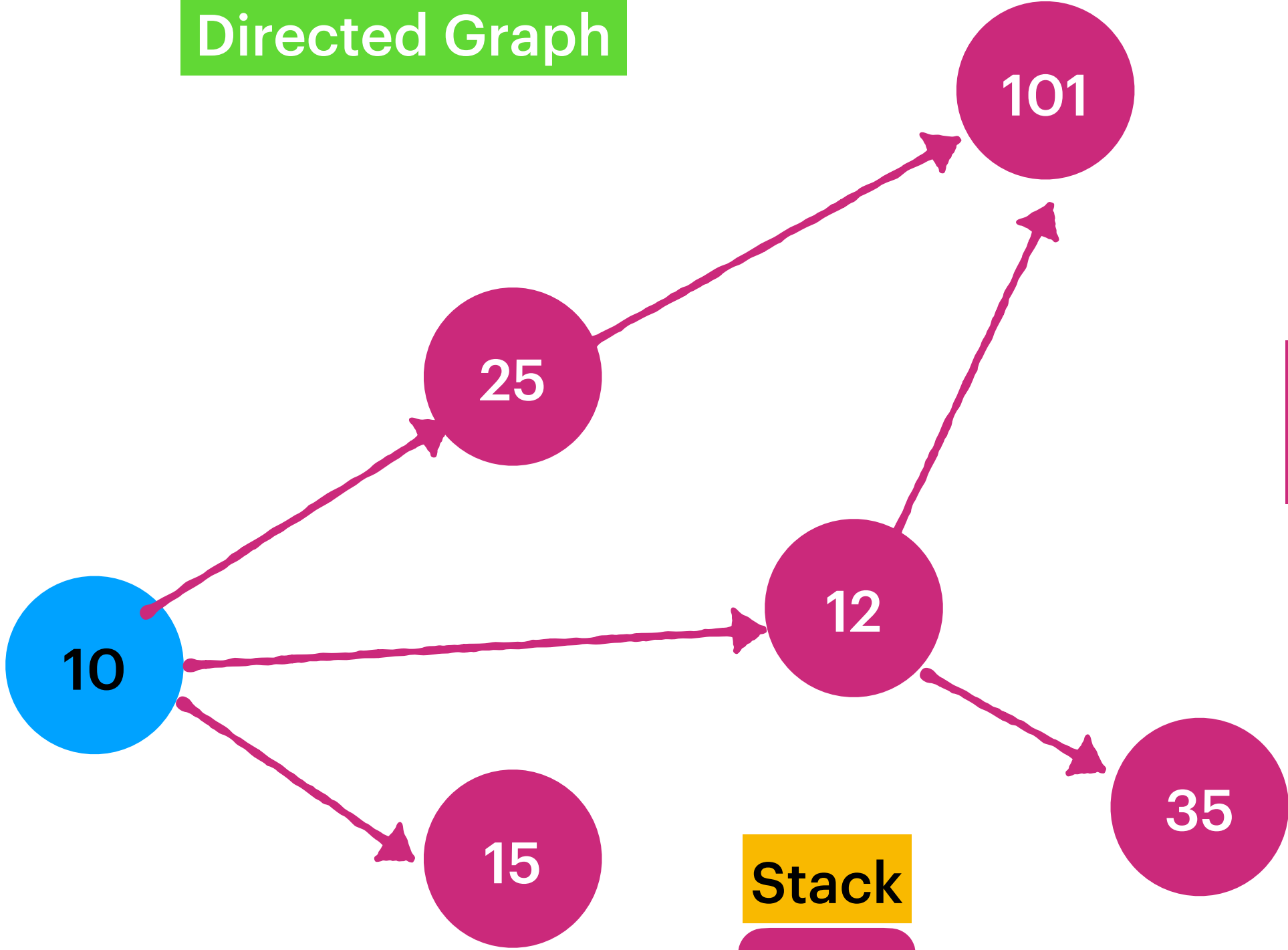


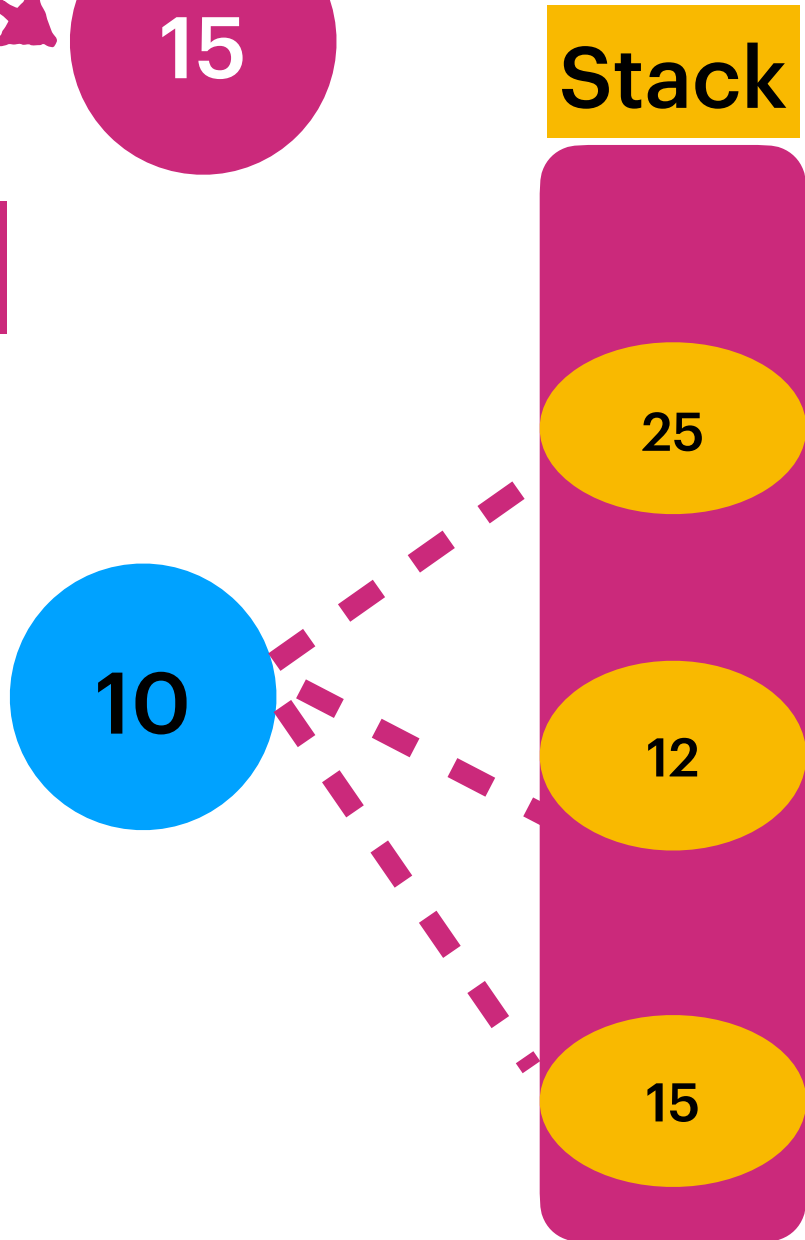
Depth First Search

Directed Graph



visitedSet : [10,25,101,12,35,15]
Output: List<Integer> : [10,25,101,12,35,15]

10,25,101,12,35,15



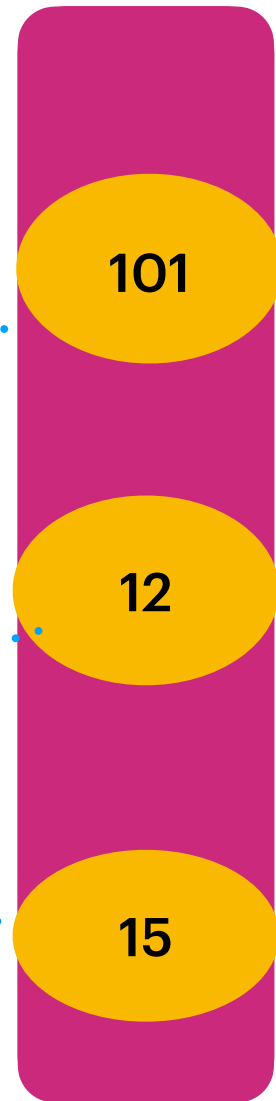
Pop the top

25

Pop the top

101

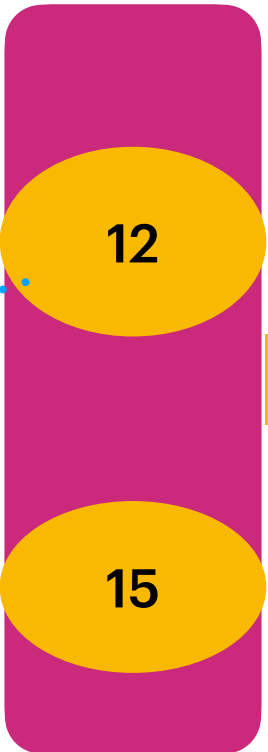
10



Pop the top

10

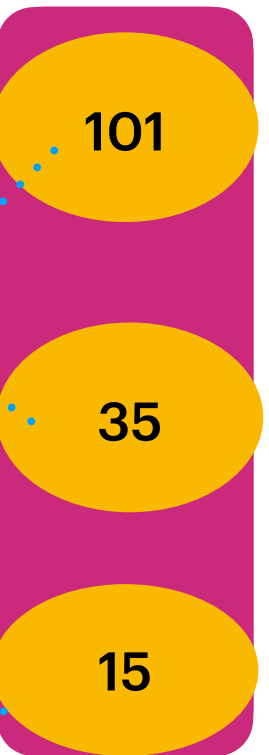
10



Pop the top

12

10

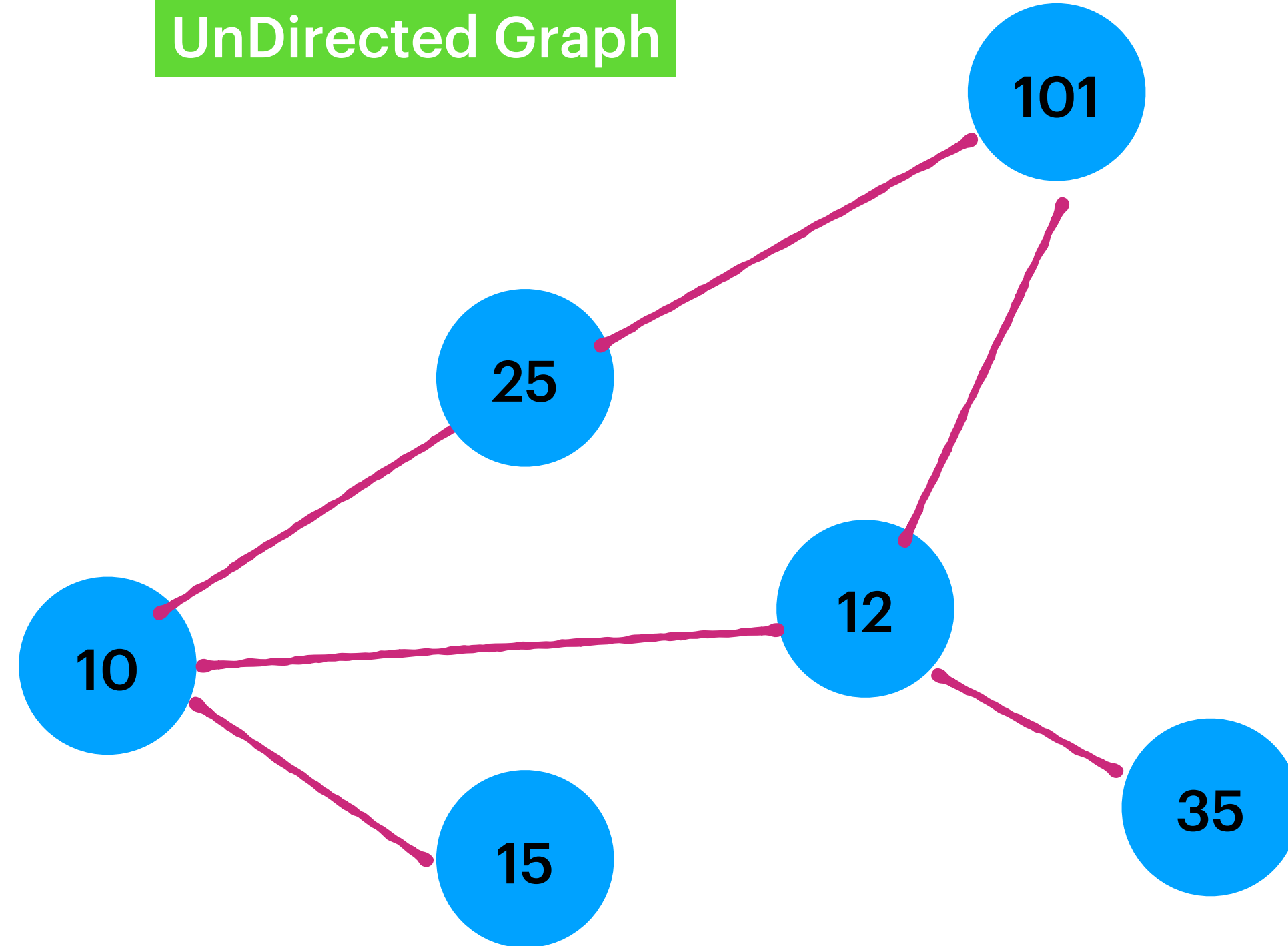


101 is already visited

101

Depth First Search

UnDirected Graph



10 => [15, 12, 25] 15 => [10]
12 => [10, 101, 35]
25 => [10, 101]
101 => [25, 12]
35 => [12]

Stack []

Set [10,25,101,12,35,15]

OutputList[10,25,101,12,35,15]

DFS [10, 25, 101, 12, 35, 15]

Traverse All the Vertexes + Visit the unique Edges
Time Complexity : $O(V+E)$