Rubric

Building adjacency matrix	3
Taking correct parameters	1
Correctly traversing the adjacency matrix	4
Building proper logic with handling corner case	6
Returning correct output	1
Total	15

SET A

```
def helper(graph, start, nextNode,
                                         public class GraphHelper {
destination):
  if nextNode == len(graph):
                                             public static boolean helper(int[][]
    if graph[start][destination] == 1:
                                         graph, int start, int nextNode, int
      return True
                                         destination) {
    return False
                                                 if (nextNode == graph.length) {
                                                     return
  if graph[start][nextNode] != 1:
                                         graph[start][destination] == 1;
    return False
                                                 }
  return helper(graph, start+1,
                                                 if (graph[start][nextNode] != 1)
nextNode+1, destination)
                                                     return false;
def wantToReturnStart(graph):
                                                 }
    return helper(graph, 0, 1, 0)
                                                 return helper(graph, start + 1,
                                         nextNode + 1, destination);
graph = [
    [0, 1, 0, 0, 0],
    [0, 0, 1, 0, 0],
    [0, 0, 0, 1, 0],
                                             public static boolean
                                         wantToReturnStart(int[][] graph) {
    [0, 0, 0, 0, 1],
    [1, 0, 0, 0, 0]
                                                 return helper(graph, 0, 1, 0);
]
                                             }
print(want_to_return_start(graph)) #
                                             public static void main(String[]
Output: True
                                         args) {
                                                 int[][] graph = {
                                                     {0, 1, 0, 0, 0},
```

SET B

```
def helper(graph, start, nextNode,
destination):
  if nextNode < len(graph):</pre>
   if graph[start][destination] == 1:
        return True
   if graph[start][nextNode] != 1:
      return False
    return helper(graph, start+1,
nextNode+1, destination)
  return False
def reachingToFinalDestination(graph):
    return helper(graph, 0, 1, 4)
graph = [
   [0, 1, 0, 0, 0],
   [0, 0, 1, 0, 0],
   [0, 0, 0, 1, 0],
   [0, 0, 0, 0, 1],
   [0, 0, 0, 0, 0]
]
print(reaching_to_final_destination(gr
aph)) # Output: True
```

```
public class GraphHelper {
    public static boolean
helper(int[][] graph, int start, int
nextNode, int destination) {
        if (nextNode < graph.length) {</pre>
            if
(graph[start][destination] == 1) {
                return true;
            }
            if (graph[start][nextNode]
!= 1) {
                return false;
            return helper(graph, start
+ 1, nextNode + 1, destination);
        return false;
   }
    public static boolean
reachingToFinalDestination(int[][]
graph) {
        return helper(graph, 0, 1, 4);
    }
```