Implement Depth Limited Search (Uninformed Search)

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1. You are given an undirected or bidirected graph and a source from which you will start your journey. You have to find and print the list of vertices you can go from the source vertice given as input.

a. First will have the total number of nodes (**n)** and the total number of edges (**m)**.

b. Next m lines will be followed by m pairs of integers denoting the bi-directional edges.

   i. a b
      1. It means there is a connection from **a to b** and
      2. Also, a connection from **b to a**.

c. Then a single integer **s** denoting the source.

d. Then a single integer **d** denoting the depth limit for the search.

2. Use the idea of Graph traversal to solve the problem. Use **Recursion** for this task.
3. Outputs:

. Print the nodes in the order they are getting explored starting from the source node including in which depth level they were explored.

a. Maximum depth Reached for the corresponding DFS.

Input #1	***Output#1***
14 12 0 1 0 4 0 2 1 3 1 4 3 5 5 6 5 7 6 8 2 11 11 10 9 13 **0** **3**	Explored 0 at depth 0 Explored 1 at depth 1 Explored 3 at depth 2 **Explored 5 at depth 3** Explored 4 at depth 2 Explored 2 at depth 1 Explored 11 at depth 2 **Explored 10 at depth 3** Maximum Depth reached: **3**
Input #2	***Output#2***

14 10 0 1 0 2 0 4 1 3 1 4 2 11 3 5 6 7 8 9 10 13 **4** **6**	Explored 4 at depth 0 Explored 0 at depth 1 Explored 1 at depth 2 Explored 3 at depth 3 **Explored 5 at depth 4** Explored 2 at depth 2 Explored 11 at depth 3 Maximum Depth reached: **4**
Input #3	***Output#3***
7 5 1 2 1 4 2 5 3 6 0 6 **6** **0**	Explored 6 at depth 0 Maximum Depth reached: **0**