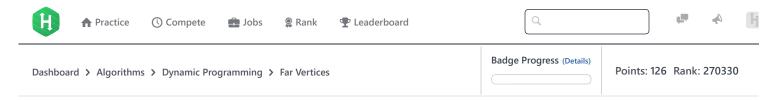
16/11/2017 HackerRank



Far Vertices



Problem Submissions Leaderboard Discussions Editorial

You are given a tree that has N vertices and N-1 edges. Your task is to mark as small number of vertices as possible, such that, the maximum distance between two unmarked vertices is less than or equal to K. Output this value. Distance between two vertices i and j is defined as the minimum number of edges you have to pass in order to reach vertex i from vertex j.

Input Format

The first line of input contains two integers N and K. The next N-1 lines contain two integers (ui,vi) each, where 1 <= ui,vi <= N. Each of these lines specifies an edge.

N is no more than 100. K is less than N.

Output Format

Print an integer that denotes the result of the test.

Sample Input:

- 5 1
- 1 3
- 1 /
- 1 5

Sample Output:

3

Sample Input:

- 5 2
- 1 2
- 1 3
- 1 4 1 5

Sample Output:

0

Explanation:

In the first case you have to mark at least 3 vertices, and in the second case you don't need to mark any vertices.

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Submissions: <u>595</u>

Max Score:70

16/11/2017 HackerRank

Difficulty: Hard

Rate This Challenge:
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More

```
Current Buffer (saved locally, editable) & •
                                                                                            Java 7
                                                                                                                              \Diamond
 1 ▼ import java.io.*;
 2 import java.util.*;
 3 import java.text.*;
 4 import java.math.*;
 5 import java.util.regex.*;
 7 ▼ public class Solution {
 8
        public static void main(String[] args) {
 9 ▼
            /* Enter your code here. Read input from STDIN. Print output to STDOUT. Your class should be named Solution. */
10 ▼
11
    }
12
                                                                                                                      Line: 1 Col: 1
                      ☐ Test against custom input
                                                                                                         Run Code
                                                                                                                       Submit Code
1 Upload Code as File
```

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