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N can be very large. Aim for an algorithm with a time complexity of O(N).

Level order traversal: print nodes at every level of the forest.

Each node is given an integer value 0 to (N-1).

An integer T, denoting the number of testcases, followed by 2T lines, as each testcase will contain 2 lines.

OUTPUT FORMAT

2

6

5 - 1 1 1 5 2

SAMPLE OUTPUT

==========

INPUT FORMAT

You have to find:

Second line of each testcase has list of N values where the number at index i is the parent of node i. The parent of root is -1. (The index has the range [0, N-1]).

============= For each testcase given, Suppose m is the height of tree, then next m lines must contain the nodes of that level in ascending order separated by space. After printing level order

You are given a forest (it may contain a single tree or more than one tree) with N nodes.

traversal of each testcase, print a new line. SAMPLE INPUT

First line of each testcase has the value of N.

13 43-1-1127314212

23 5

===========

1 5 7 10 12 46811

0 4

2 3

09

Each node is given an integer value 0 to (N-1). You have to find:

INPUT FORMAT

contain 3 lines.

OUTPUT FORMAT

5-11152

8 5

-1

SAMPLE OUTPUT

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==========

Nearest common ancestor of two given nodes x1 and x2.

N can be very large. Aim for an algorithm with a time complexity of O(N).

of node i. The parent of root is -1. (The index has the range [0, N-1]).

• Question 03:

First line of each testcase has the value of N. Second line of each testcase has list of N values where the number at index i is the parent

Third line for each testcase contains two integers within the range of [0,N-1] whose

An integer T, denoting the number of testcases, followed by 3T lines, as each testcase will

You are given a forest (it may contain a single tree or more than one tree) with N nodes.

For each testcase given, output a single line that has the nearest common ancestor to two given nodes x1 and x2. If a common ancestor is not present then output '-1'. SAMPLE INPUT

03 13 43-1-1127314212

common ancestor you have to find.

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