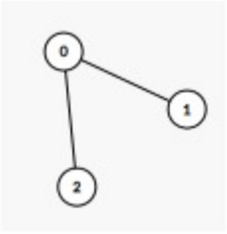
1245. Tree Diameter

Medium 235 6 Add to List Share

Given an undirected tree, return its diameter: the number of **edges** in a longest path in that tree.

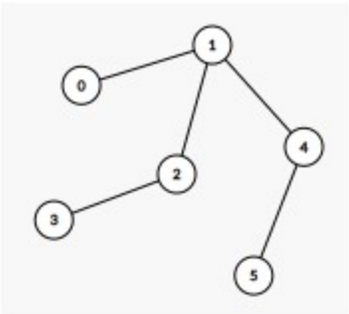
The tree is given as an array of `edges` where `edges[i] = [u, v]` is a bidirectional edge between nodes `u` and `v`. Each node has labels in the set `{0, 1, ..., edges.length}`.

Example 1:




```
Input: edges = [[0,1],[0,2]]
Output: 2
Explanation:
A longest path of the tree is the path 1 - 0 - 2.
```

Example 2:




```
Input: edges = [[0,1],[1,2],[2,3],[1,4],[4,5]]
Output: 4
Explanation:
A longest path of the tree is the path 3 - 2 - 1 - 4 - 5.
```

Constraints:

- `0 <= edges.length < 10^4`
- `edges[i][0] != edges[i][1]`
- `0 <= edges[i][j] <= edges.length`
- The given edges form an undirected tree.

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```
1  class Solution(object):
2      def treeDiameter(self, edges):
3          """
4          :type edges: List[List[int]]
5          :rtype: int
6          """
7
```