

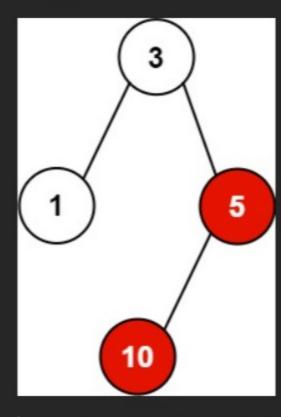
You have n processes forming a rooted tree structure. You are given two integer arrays pid and ppid, where pid[i] is the ID of the ith process and ppid[i] is the ID of the ith process's parent process.

Each process has only **one parent process** but may have multiple children processes. Only one process has ppid[i] = 0, which means this process has **no parent process** (the root of the tree).

When a process is killed, all of its children processes will also be killed.

Given an integer kill representing the ID of a process you want to kill, return a list of the IDs of the processes that will be killed. You may return the answer in **any order**.

Example 1:



Input: pid = [1,3,10,5], ppid = [3,0,5,3], kill = [5,0,5,3]

Output: [5,10]

Explanation: The processes colored in red are the processes that should be killed.

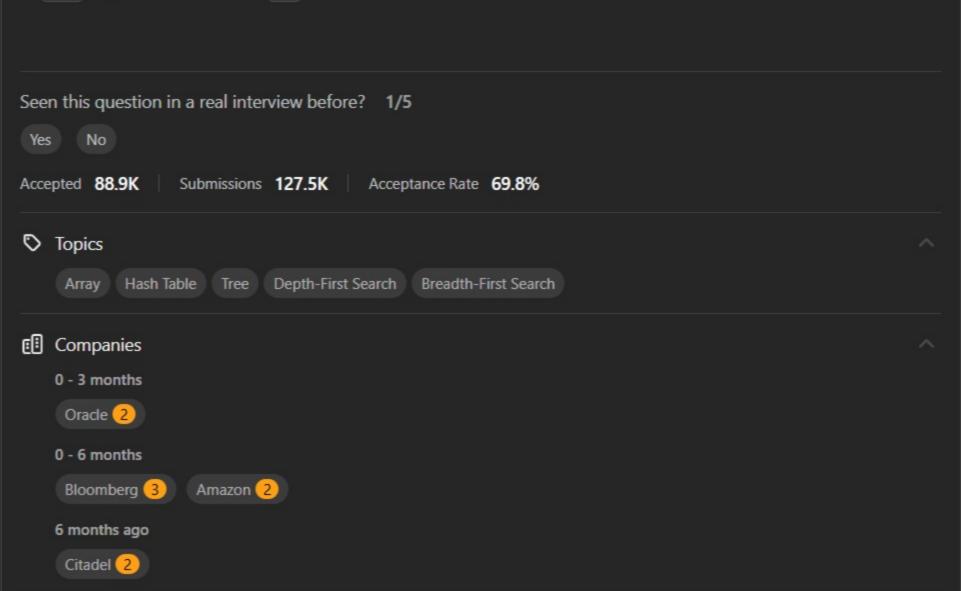
Example 2:

Input: pid = [1], ppid = [0], kill = 1

Output: [1]

Constraints:

- n == pid.length
- n == ppid.length
- 1 <= n <= 5 * 10⁴
- 1 <= pid[i] <= 5 * 10⁴
- $0 \le ppid[i] \le 5 * 10^4$
- Only one process has no parent.
- All the values of pid are unique.
- kill is guaranteed to be in pid.



Discussion (2)