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Description Solution Discuss (502) Submissions Java Autocomplete

582. Kill Process

Medium 1003 19 Add to List Share

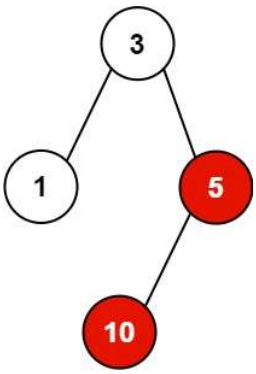
You have `n` processes forming a rooted tree structure. You are given two integer arrays `pid` and `ppid`, where `pid[i]` is the ID of the `i`th process and `ppid[i]` is the ID of the `i`th process's parent process.

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

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```
1  class Solution {
2      public List<Integer> killProcess(List<Integer> pid, List<Integer> ppid, int kill) {
3
4      }
5  }
```

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