

582. Kill Process

Medium 1015 19 Add to List Share

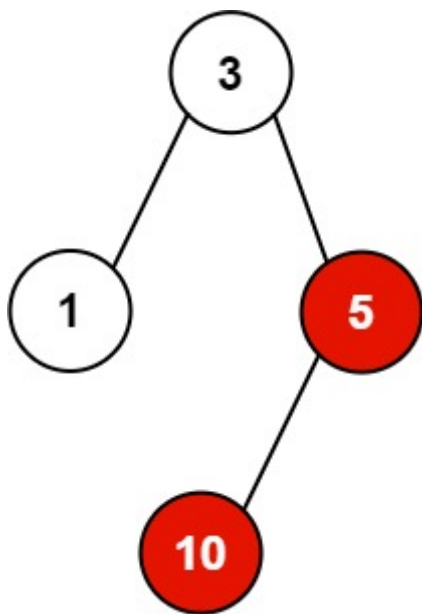
You have n processes forming a rooted tree structure. You are given two integer arrays `pid` and `ppid`, where `pid[i]` is the ID of the i^{th} process and `ppid[i]` is the ID of the i^{th} process's parent process.

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`