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1376. Time Needed to Inform All Employees

Medium ◇ Topics 🏢 Companies ⦾ Hint

A company has `n` employees with a unique ID for each employee from `0` to `n - 1`. The head of the company is the one with `headID`.

Each employee has one direct manager given in the `manager` array where `manager[i]` is the direct manager of the `i-th` employee, `manac`

The head of the company wants to inform all the company employees of an urgent piece of news. He will inform his direct subordinates, an
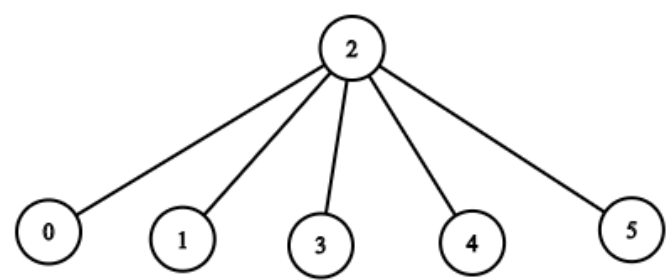
The `i-th` employee needs `informTime[i]` minutes to inform all of his direct subordinates (i.e., After informTime[i] minutes, all his direct su

Return *the number of minutes* needed to inform all the employees about the urgent news.

Example 1:

```
Input: n = 1, headID = 0, manager = [-1], informTime = [0]
Output: 0
Explanation: The head of the company is the only employee in the company.
```

Example 2:


```
Input: n = 6, headID = 2, manager = [2,2,-1,2,2,2], informTime = [0,0,1,0,0,0]
Output: 1
Explanation: The head of the company with id = 2 is the direct manager of all the employees in the c
The tree structure of the employees in the company is shown.
```

Constraints:

- `1 <= n <= 10^5`

- `0 <= headID < n`

- `manager.length == n`

- `0 <= manager[i] < n`

- `manager[headID] == -1`

- `informTime.length == n`

- `0 <= informTime[i] <= 1000`

- `informTime[i] == 0` if employee `i` has no subordinates.

- It is **guaranteed** that all the employees can be informed.

Seen this question in a real interview before? 1/4

Yes   No

Accepted **207.7K**   Submissions **346.2K**   Acceptance Rate **60.0%**

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