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Exercise Author

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Time Limit: 12000/6000 MS (Java/Others) Memory Limit: 65536/65536 K (Java/Others) Total Submission(s): 1547 Accepted Submission(s): 442

Problem Description

There are n villages along a high way, and divided the high way into n-1 segments. Each segment would charge a certain amount of money for being open for one day, and you can open or close an arbitrary segment in an arbitrary day, but you can open or close the segment for just one time, because the workers would be angry if you told them to work multiple period.

We know the transport plan in the next m days, each day there is one cargo need to transport from village ai to village bi, and you need to guarantee that the segments between a i and bi are open in the i-th day. Your boss wants to minimize the total cost of the next m days, and you need to tell him the charge for each day.

(At the beginning, all the segments are closed.)

Input

Multiple test case. For each test case, begins with two integers n, $m(1 \le n, m \le 200000)$, next line contains n-1 integers. The i-th integer $w_i(1 \le w_i \le 1000)$ indicates the charge for the segment between village i and village i+1 being open for one day. Next m lines, each line contains two integers $a_i, b_i \le n$, $a_i! = b_i$

Output

For each test case, output m lines, each line contains the charge for the i-th day.

Sample Input

4

Sample Output

5 5

Author

BUPT

Source

2016 Multi-University Training Contest 10

Recommend

wange2014 | We have carefully selected several similar problems for you: 6566 6565 6564 6563 6562

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Administration