
Christmas gift**P74421_en**

It is December 24th evening. An absent minded farmer has just realized that he did not buy any gift for his wife. The farmer is on a path in the woods, and he can only think about picking up all the mushrooms on the way back home, praying that that will soften a bit the cries awaiting him. Suppose the path divided into n segments 1, 2, ... n , and that in each one there are a certain number of mushrooms m_i . The farmer is at the segment f , and his home is at the segment h . The farmer will pick up all the mushrooms in the segments between f and h . How many mushrooms will it be?

Input

Input consists of several cases. Every case begins with n , followed by the n quantities of mushrooms m_i . Follow the number of queries q about this case, assuming different positions of the farmer and his home. Each query consists of f and h , both between 1 and n . Suppose $1 \leq n \leq 10^5$, $0 \leq m_i \leq 1000$, and $q > 0$.

Output

For every case, print its number. For every query of every case, print the sum of the numbers between f and h , the extremes inclusive.

Sample input 1

```
4    7 0 20 105
3
1 4
3 3
4 3
1    1000
1
1 1
```

Sample output 1

```
#1
132
20
125
#2
1000
```

Problem information

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