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## Christmas gift

P74421\_en

Setè Concurs de Programació de la FME (2010-12-21)

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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  $1, 2, \dots, n$ , 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 extremis inclusive.

#### Sample input

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

#### Sample output

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

### Problem information

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