2637 - Range Sum Query

Description

Given a list L containing n integers, find the Range Sum Query (RSQ) between index i and j, inclusive, i.e. RSQ(i, j) = L[i] + L[i+1] + L[i+2] + ... + L[j].

Input specification

The input starts with an integer t in the first line that denotes the number of test cases in this problem (1 <= t <= 5).
Each test case starts with a blank line, followed by a line that contains 2 integers: n and q (1 <= n, q <= 100,000).
Then, the next line contains n non-negative integers up to 1,000,000,000.
Then q lines follow.
Each line contains two integers, i and j (0 <= i, j < 10,000).

Output specification

For each query, print a line containing the value of RSQ(i, j).
Separate two test cases with a blank line.

Sample input

```
2

5 2
1 2 3 4 5
4 4
1 3

10 5
10 9 7 20 14 23 14 27 38 77
8 9
7 9
6 9
5 9
4 9
```

Sample output

```
5
9

115
142
156
179
193
```

Hint(s)

Source	ACM-ICPC Thailand Southern Programming Contest 2013 - Dr Steven Halim
Added by	**ymondelo20**
Addition date	2013-11-19
Time limit (ms)	2000
Test limit (ms)	1500
Memory limit (kb)	256000
Output limit (mb)	64
Size limit (bytes)	15000
Enabled languages	Bash C C# C++ Java Pascal Perl PHP Python Ruby Text