



ACM-ICPC Thailand Southern Programming Contest 2013

Hosted by
Department of Computer Engineering
Prince of Songkla University Hatyai Campus

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Contest Problems

- There are **8** problems (A-H) to solve within 3 hours 30 minutes.
- Solve as many problems as you can, in an order of your choice.
- Use C or C++ or Java to program at your convenience for any problems.
- Input and output of each program are **standard input** and **output**.

Problem A	Unlock My Safe
Problem B	Two Mysterious Alphabets from a Tree
Problem C	Max Volume
Problem D	Birthday Statistics
Problem E	Nonogram
Problem F	Jane's First Words
Problem G	Range Sum Query
Problem H	Sum of Distinct Numbers ผลรวมเลขไม่ซ้ำ

Problem G. Range Sum Query

Time Limit: 1s

Problem Description

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

Input

The input starts with an integer t in the first line that denotes the number of test cases in this problem ($1 \leq t \leq 5$).

Each test case starts with a blank line, followed by a line that contains 2 integers: n and q

($1 \leq n, q \leq 100,000$).

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 ($0 \leq i, j < 10,000$).

Output

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
```

Problem Author

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