
Sum

Jojo has an array of integer with size N . He wants to play a game with Lili. He will ask her Q questions, each with two integer L and R , and ask her what is the sum from number index L until number index R . She will win the game if she can answer all his questions. Help her win the game!

Format Input

There is an integer T , indicating the number of test cases. The first line of each test case contains two integers N and Q , giving the size of array and the number of questions. Then follows N positive integers a_i describing the array. Each of the next Q lines contains L and R describing the question. You may assume that $R-L \leq 1000$.

Format Output

For each test case print the answer of the questions.

Constraints

$1 \leq T \leq 10$

$1 \leq N, a_i \leq 100000$

$1 \leq Q \leq 1000$

Sample Input	Sample Output
1 4 3 1 2 3 4 1 3 2 4 1 4	6 9 10