## Tanushera And His Car

Tanusera is a famous programmer. Recently he has bought a new car. He loves to play with problems, you know. So, he has decided to make a new problem. He has developed a software \& installed it in his car. This software measures the distance passed by the car from time 1 to time $\mathbf{N}$ and shows the distance passed by it in every second. You'll be given the data which the software represents. After that Tanusera will ask you $\mathbf{Q}$ queries. In each query, he will give you time t1 and time t2. You have to calculate the distance passed by his car from t1 to t2.

## Input

Input starts with an integer $\mathbf{T}$, denoting the number of test cases. In each case, there will be two integers $\mathbf{N}$ and $\mathbf{Q}$ where $\mathbf{N}$ denotes the amount of times the software has been performed and $\mathbf{Q}$ denotes the number of queries. The next line will contain $\mathbf{N}$ integers, $\mathbf{i}^{\text {th }}$ integer is the distance passed by the car in ith time. Then there will be $\mathbf{Q}$ lines. In each line, there will be two integers $\mathbf{t 1}$ and $\mathbf{t 2}$.

## Constraints

$1<=$ T <= 3
$1<=N$ <= 1000000
$0<=i^{\text {th }}$ integer <= 1000000
$1<=Q<=1000000$
1 <= t1 <= t2 <= N

## Output

For each case, print the case number and the distance passed by the car from time $\mathbf{t 1}$ to time $\mathbf{t 2}$ for every query in single line. See the samples for further clarification.

## Example

## Input:

3

54
00592
12
11
35
55
33
208
23
13
22

11
5
11
Output:
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