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Danny Wants To Know

Problem Code: **DANOW**

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As we know, Danny has a huge army and each time she wins a battle the size of her army is increased. Missandei, her advisor and Handmaiden, keeps the log of each battle and the amount and strength of soldiers won in a battle.

Now, Danny has some questions for Missandei in which she asks the strength of the army gained during some battles. She will ask the query of the form L , R and Missandei has to tell the strength gained in between the L and R battles. Help Missandei.

You are given an array A , where $A[i]$ represents the number of soldiers won in i^{th} battle and the strength of a soldier who won in i^{th} battle is given in another array $B[i]$. ($B[i]$ represents the strength of each soldier who won in the i^{th} battle).

Input:

- First line will contain N and Q , number of battles fought and number of queries.
- Next line contains N space separated integers denoting the array A .
- Next line contains N space separated integers denoting the array B .
- Next Q lines contain two integers L and R .

Output:

For each query, output the strength gained in between the L and R battles (both inclusive).

Constraints

- $1 \leq N, Q \leq 1000$
- $0 \leq A[i] \leq 10^6$
- $0 \leq B[i] \leq 10^6$
- $1 \leq L \leq R \leq N$

Sample Input:

```
5 3
2 3 1 6 5
1 2 3 4 5
2 3
1 1
1 5
```

Sample Output:

```
9
2
60
```

EXPLANATION:

For the first query, strength gained in 2^{nd} battle is $2 * 3 = 6$ and in 3^{rd} battle is $3 * 1 = 3$. Total = $6 + 3 = 9$.

All submissions for this problem are available.

Author:	4★ aashu_k
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