Description | **My Submissions** | **Hints/Editorial** | **AC Submissions** | **My Notes (0)**

LR Sum Query

🔖   **?** Ask Doubt

⏱ Time-Limit: 4 sec   ✏ Score: 100.00/100   Difficulty : ⭐⭐

💾 Memory: 256 MB   ✓ Accepted Submissions: 100 Relevant For: [AZ-201] [AZ-202]

Description

Given an array of N integers and Q queries. In each query two integers L, R is given, you have to find ($A[L] + A[L+1] + A[L+2] + A[L+3]...A[R]$) % 10^9+7.

Input Format

The first line contains two space-separated integers N, Q where 1<=N<=10^6, 1<=Q<=10^6.

Next line contains N space-separated integers (-1e9<=A_i<=1e9).

Next Q lines contain two space-separated integers L, R where 1<=L<=R<=N.

Output Format

For each query print the value of ($A[L] + A[L+1] + A[L+2] + A[L+3]...A[R]$) % 10^9+7 in a new line.

Sample Input 1   ⧉ Copy

```
10 10
12 -23 -123 2345 2345 44 345 -93945 -5353 1
1 5
1 8
1 10
2 2
6 6
4 8
2 9
4 10
3 6
5 9
```

Sample Output 1   ⧉ Copy

```
4556
999911007
999905655
999999984
44
999911141
```

C++14[GCC] ▾

🔄 🗐 ☁   Submit

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