

Problem C.

#include <iostream>

#define ll long long int

using namespace std;

int main() {

ll n, q, a[101000], b[101000], l, r;

cin >> n >> q;

for (int i = 1; i <= n; i++) cin >> a[i];

for (int i = 1; i <= n; i++) {

cin >> b[i];

a[i] += b[i];

a[i] = a[i] * a[i] + a[i-1];

}

while (q--) {

cin >> l >> r;

cout << a[r] - a[l-1] << "\n";

}

}