

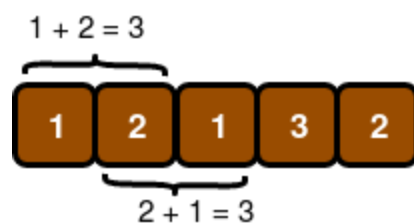
## Problem: *The Birthday Bar*

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Lily has a chocolate bar consisting of a row of  $n$  squares where each square has an integer written on it. She wants to share it with Ron for his birthday, which falls on month  $m$  and day  $d$ . Lily wants to give Ron a piece of chocolate only if it contains  $d$  consecutive squares whose integers sum to  $m$ .

Given  $n$ ,  $m$ , and the sequence of integers written on each square of Lily's chocolate bar, how many different ways can Lily break off a piece of chocolate to give to Ron?

For example, if  $n = 5$ ,  $m = 3$ , and the chocolate bar contains 5 squares with the integers written on them from left to right, the following diagram shows two ways to break off a piece:



### Input Format

The first line contains an integer denoting  $n$  (the number of squares in the chocolate bar).

The second line contains  $n$  space-separated integers describing the respective values of  $a_i$  (the numbers written on each consecutive square of chocolate).

The third line contains two space-separated integers describing the respective values of  $m$  (Ron's birth *day*) and  $d$  (Ron's birth *month*).

### Constraints

- $1 \leq n \leq 10^5$
- $1 \leq a_i \leq 10^4$ , where  $a_i$  is the integer on the  $i$ -th square
- $1 \leq m \leq 10^4$
- $1 \leq d \leq 10^5$

### Output Format

Print an integer denoting the total number of ways that Lily can give a piece of chocolate to Ron.

### Sample Input 0

```
5
1 2 1 3 2
3 2
```

### Sample Output 0

```
2
```

#### Explanation 0

This sample is already explained in the problem statement.

#### Sample Input 1

```
6
1 1 1 1 1 1
3 2
```

#### Sample Output 1

```
0
```

#### Explanation 1

Lily only wants to give Ron  $k$  consecutive squares of chocolate whose integers sum to  $s$ . There are no possible pieces satisfying these constraints:



Thus, we print 0 as our answer.

#### Sample Input 2

```
1
4
4 1
```

#### Sample Output 2

```
1
```

#### Explanation 2

Lily only wants to give Ron  $k$  square of chocolate with an integer value of  $s$ . Because the only square of chocolate in the bar satisfies this constraint, we print 1 as our answer.

## *Solution:*

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```
int main() {
    int squares;
    int date, month;
    int possibleWays=0;

    cin>>squares;
    int values[squares];

    /*Feeding the data*/
    for(int i=0; i<squares; i++)
        { cin>>values[i]; }

    cin>>date >>month;

    /*Counting the possible ways*/
    for(int i=0; i<squares; i++)
    {
        int sum=0;
        for(int j=0; j<month && i+(month-1)<squares ; j++)
            { sum+=values[i+j]; }
        if(sum==date)
            {possibleWays+=1;
            }
    }

    cout<<possibleWays;

    return 0;
}
```