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Birthday Chocolate



by adititayal9

Problem

Submissions

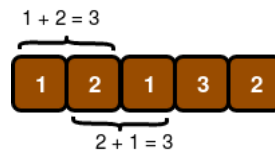
Leaderboard

Discussions

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 only wants to give Ron a piece of chocolate if it contains m consecutive squares whose integers sum to d .

Given m , d , 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 $m = 2$, $d = 3$ and the chocolate bar contains n rows of squares with the integers $[1, 2, 1, 3, 2]$ 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 s_0, s_1, \dots, s_{n-1} (the numbers written on each consecutive square of chocolate).

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

Constraints

- $1 \leq n \leq 100$
- $1 \leq s_i \leq 5$, where $(0 \leq i < n)$
- $1 \leq d \leq 31$
- $1 \leq m \leq 12$

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 $m = 2$ consecutive squares of chocolate whose integers sum to $d = 3$. 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 $m = 1$ square of chocolate with an integer value of $d = 4$. Because the only square of chocolate in the bar satisfies this constraint, we print 1 as our answer.

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Contest ends in 2 days

Submissions: [1516](#)

Max Score: 10

Difficulty: Easy

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C#



```
1 using System;
2 using System.Collections.Generic;
3 using System.IO;
4 using System.Linq;
5 class Solution {
6
7     static void Main(String[] args) {
8         int n = Convert.ToInt32(Console.ReadLine());
9         string[] squares_temp = Console.ReadLine().Split(' ');
10        int[] squares = Array.ConvertAll(squares_temp, Int32.Parse);
11        string[] tokens_d = Console.ReadLine().Split(' ');
12        int d = Convert.ToInt32(tokens_d[0]);
13        int m = Convert.ToInt32(tokens_d[1]);
14        // your code goes here
15
16        int ans = 0;
```

```
17
18     int sum = 0;
19     for (int i = 0; i < m; i++)
20     {
21         sum += squares[i];
22     }
23     if (sum == d)
24     {
25         ans++;
26     }
27
28     for (int i = 0; i + m < squares.Length; i++)
29     {
30         sum -= squares[i];
31         sum += squares[i + m];
32
33         if (sum == d)
34         {
35             ans++;
36         }
37     }
38
39     Console.WriteLine(ans);
40 }
41 }
42 }
```

Line: 39 Col: 36

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