

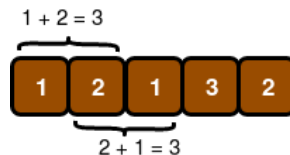
Birthday Chocolate



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.