



## Subarray Division ★

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Problem

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Two children, Lily and Ron, want to share a chocolate bar. Each of the squares has an integer on it.

Lily decides to share a contiguous segment of the bar selected such that:

- The length of the segment matches Ron's birth month, and,
- The sum of the integers on the squares is equal to his birth day.

Determine how many ways she can divide the chocolate.

### Example

 $s = [2, 2, 1, 3, 2]$  $d = 4$  $m = 2$ 

Lily wants to find segments summing to Ron's birth day,  $d = 4$  with a length equalling his birth month,  $m = 2$ . In this case, there are two segments meeting her criteria:  $[2, 2]$  and  $[1, 3]$ .

### Function Description

Complete the birthday function in the editor below.

birthday has the following parameter(s):

- int s[n]: the numbers on each of the squares of chocolate
- int d: Ron's birth day
- int m: Ron's birth month

### Returns

- int: the number of ways the bar can be divided

### Input Format

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

The second line contains  $n$  space-separated integers  $s[i]$ , the numbers on the chocolate squares where  $0 \leq i < n$ .

The third line contains two space-separated integers,  $d$  and  $m$ , Ron's birth day and his birth month.

### Constraints

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

### Sample Input 0

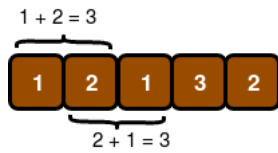
```
5
1 2 1 3 2
3 2
```

## Sample Output 0

2

## Explanation 0

Lily wants to give Ron  $m = 2$  squares summing to  $d = 3$ . The following two segments meet the criteria:



## Sample Input 1

```
6
111111
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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Language

Python 3



```
1  #!/bin/python3
2
3  import math
4  import os
5  import random
```

```

5 import random
6 import re
7 import sys
8
9 #
10 # Complete the 'birthday' function below.
11 #
12 # The function is expected to return an INTEGER.
13 # The function accepts following parameters:
14 # 1. INTEGER_ARRAY s
15 # 2. INTEGER d
16 # 3. INTEGER m
17 #
18
19 def birthday(s, d, m):
20     # Write your code here
21     count = 0
22     for i in range(len(s) - m + 1):
23         if sum(s[i:i + m]) == d:
24             count += 1
25     return count
26
27 if __name__ == '__main__':
28     fptr = open(os.environ['OUTPUT_PATH'], 'w')
29
30     n = int(input().strip())
31
32     s = list(map(int, input().rstrip().split()))
33
34     first_multiple_input = input().rstrip().split()

```

EMACS

Line: 45 Col: 1

☐ Test against custom input



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36%

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## Congratulations

You solved this challenge. Would you like to challenge your friends?

☒ Test case 0

Compiler Message

☒ Test case 1

Success

☒ Test case 2







Input (stdin)

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```

1 5
2 1 2 1 3 2

```

 Test case 3 	3	3 2
 Test case 4 	Expected Output	
 Test case 5 	1	2

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