

# Subarray Division 1

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  $(0 \leq i < n)$
- $1 \leq d \leq 31$
- $1 \leq m \leq 12$