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.