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

```
#
# The function is expected to return an INTEGER.
# The function accepts following parameters:
#  1. INTEGER_ARRAY s
#  2. INTEGER d
#  3. INTEGER m
#

def birthday(s, d, m):
    # Write your code here
    ways = 0
    for idx in range(len(s)):
        seg_sum = 0
        seg_cnt = 0
        for jdx in range(idx, idx+m):
            if jdx < len(s):
                seg_sum += s[jdx]
                seg_cnt += 1
                if seg_sum == d and seg_cnt == m:
                    ways += 1
    return ways




if __name__ == '__main__': …
```

Line: 38 Col: 5

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Congratulations

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

Next Challenge

- Test case 0
- Test case 1
- Test case 2
- Test case 3
- Test case 4
- Test case 5
- Test case 6

Compiler Message

```
Success
```

Input (stdin) Download

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

Expected Output Download

```
2
```