☆ Threshold Alerts

A compliance system monitors incoming an outbound calls and sends an alert whenever the average calls over a trailing number of minutes exceeds a threshold. If trailing minutes to consider, *preceedingMinutes = 5*, at time *T*, average the call volumes for times *T-(5-1), T-(5-2) ...T*.

For example, the calls over the last *n = 8* minutes are represented in the array *numCalls = [2, 2, 2, 2, 5, 5, 5, 8]*. The threshold, *alertThreshold = 4* and the trailing values to consider, *preceedingMinutes = 3*. No alerts will be sent until at least *T = 3* because there are not enough values to consider. At *T = 3*, average calls = *(2 + 2 + 2)/3 = 2*. Average calls over the windows from *T = 3* to the end at *T = 8* are *2, 2, 3, 4, 5,* and *6*. A total of *2* alerts are sent during the last two periods. Given data as described, determine the number of alerts sent by the end of the timeframe.

Function Description

Complete the *numberOfAlerts* function in the editor below. It should return an integer that represents the number of alerts sent over the timeframe.

numberOfAlerts has the following parameter(s):

- *preceedingMinutes:* an integer that represents the trailing number of minutes to consider
- *alertThreshold:* an integer that represents the maximum number of calls allowed without triggering an alert
- *numCalls[numCalls[0]..numCalls[n-1]]:* an array of integers where each *numCalls[i]* represents the number of calls made during minute *i*

▼ Input Format For Custom Testing

The first line contains an integer *preceedingMinutes*, that denotes the number of minutes to include in the average.
The second line contains an integer *alertThreshold*, that denotes the maximum average calls allowed before an alert is sent.
The third line contains an integer *n*, that denotes the duration of the time period in minutes and the number of elements in the array *numCalls*.
Each line *i* of the *n* subsequent lines (where $0 \le i < n$) contains *numCalls[i]*, the number of calls during minute *i*. Time starts at *t=0*.

▼ Sample Case 0

Sample Input For Custom Testing

```
3
10
5
0
11
10
10
7
```

Sample Output

```
1
```

Explanation

An alert is sent at the end of minute *3* since the average number of calls in the previous three minutes (*11*, *10* and *10*) exceeds *10*.