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Median of Subarray Sum

? Ask Doubt

Time-Limit: 2 sec

Score: 0/100

Difficulty : ★ ★ ★

Memory: 256 MB

Accepted Submissions: 100

Relevant For:

AZ-202

AZ-301

AZ-201

Description

Given an array of N integers A . The score of a subarray is the sum of all integers in the subarray. Mr.X calculated the score of all $N*(N+1))/2$ subarray. Mr.X wants you to find the median of the array containing the score of all the subarray.

Note: The median of a sequence is the value that is in the middle when the sequence is sorted. If the length of the sequence is even, there are two values in the middle and the median is the smaller of these values (or either when they are equal).

Input Format

The first line contains an integer T , the number of test cases ($1 \leq T \leq 10000$).

The first line of each test case contains an integer N where ($1 \leq N \leq 10^5$).

Next line contains N space-separated integers ($0 \leq A_i \leq 1e9$).

Sum of N across all test cases $\leq 10^6$.

Output Format

For each test case output the median of the array containing the score of all the subarray in a new line.

Sample Input 1

Copy

```
5
3
1 2 3
1
5
2
1 5
10
1 2 2 3 3 4 5 4 6 7
15
100 222 333 511 555 232 444 555 777 888 999 1000 1112 12345 123456
```

Sample Output 1

Copy

C++14[GCC] ▾

1

Submit