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Reduce the Array AZ101

? Ask Doubt

Time-Limit: 1 sec Score: 0.00/100 Difficulty :

Memory: 256 MB Accepted Submissions: 100

Description

You are given an array of N integers. In one operation, remove any two elements in the array and add their sum to the array. The cost of this operation will be the sum of the two elements. Print the minimum cost till the size of the array does not become 1.

Input Format

The first line of the input contains one integer T - the number of test cases. Then T test cases follow.

The first line of each test case contains one integer N - the length of the array.

The second line of each test case contains N space-separated integers.

Output Format

For each test case, print the minimum cost till the size of the array does not become 1.

Constraints

$1 \le T \le 10^6$

$1 \le N \le 10^6$

$1 \le A_i \le 10^9$

It is guaranteed that the sum of N over all test cases does not exceed 10^6.

Sample Input 1

Copy

```
3
4
3 1 4 2
3
1 1 1
4
2 3 1 3
```

Sample Output 1

Copy

```
19
```

C++14[GCC]

Submit

```
1
```