Filling Jugs

There are N jugs on a table and each jug has a capacity C_i.

Each jug will be filled with water such that the amount of water from Jug 1 to Jug N is in decreasing order. i.e. if Jug i has A_i amount of water in it then $A_i \geq A_{i+1}$ for $1 \leq i < N$.

What is the maximum amount of water in total the can be poured in all the jugs?

Input Format

The first line contains T, number of test cases. For each test case,

First line contains N, number of Jugs.

Second line contains N space seperated integers - C_i.

Constraints

- $1 \leq T \leq 10$
- $1 \leq N \leq 10^5$
- $1 \leq C_i \leq 10^9$

Output Format

For each test case print the maximum amount of water that can be poured in the jugs in a new line.

Sample Input 0

```
2
4
10 4 7 3
5
1 2 3 4 5
```

Sample Output 0

```
21
5
```

Explanation 0

In the first test case, amount of water in each jug will be,

10 4 4 3

In the second test case it will be,

1 1 1 1 1