Problem D. MIN MAX

Time limit 5000 ms

Mem limit 262144 kB

OS Windows

You are giving n numbers you need to print the maximum and the minimum element of these numbers

Input

The first line contains the number n ($1 \le n \le 10^6$).

The second line contains n numbers each number called x ($0 \leq x \leq 10^18$)

Output

print the maximum and the minimum element of these numbers

Examples

| Input | Output |
|-------------------|--------|
| 6 4 2 1 9 10 0 | 10 0 |