## QUESTION



An oil factory has N number of containers and each has a different capacity. During renovation, the manager decided to make some changes with the containers. He wishes to make different pairs for the containers in such a way that in the first pair, the container of maximum capacity is paired with the container of minimum capacity, and so on for the rest of the containers, to maintain a balance throughout all the pairs of containers.

Write an algorithm to make different pairs of containers in such a way that the first container in the pair is of maximum capacity and second container in the pair is of minimum capacity.

#### Input

The first line of the input consists of an integer - numContainers, representing the number of containers (N). The next line consist of N space-separated integers -  $cont_1$ ,  $cont_2$ ,... $cont_N$ , representing container capacity.

## Output

Print K lines consisting of two space-separated integers representing the pairs that will be formed to maintain the balance by pairing the container of maximum capacity with the container of minimum capacity and so on.

### Constraints

- 1 ≤ numContainers ≤ 10<sup>3</sup>
- $1 \le cont \le 10^3$
- 1 ≤ i ≤ numContainers

### QUESTION



#### Note

If only one container is left and no pair is possible then print the capacity of that container and the second value will be '0'.

## Example

## Example 1:

Input:

6

100 560 23 19 53 20

## Output:

560 19

100 20

53 23

# Explanation:

We have 6 containers with capacity (100, 560, 23, 19, 53, 20), so we can form the following pairs of containers - (560, 19), (100, 20), (53, 23).

## Example 2:

Input:

7

99 123 77 12 43 8 50

# Output:

1238

99 12

77 43

500

### Explanation

We have 7 containers with capacity (99, 123, 77, 12, 43, 8, 50), so we can form the following pairs of containers - (123, 8), (99, 12), (77, 43). The container with capacity 50 has no container left to pair with so we will make a pair with '0' and the last pair is (50, 0).

So, the output is (123, 8), (99, 12), (77, 43), (50, 0).