

# Tug of War

Time: 1 sec

A group of students decides to play a tug of war. The students would need to be divided into two teams. Each student must be on one team or the other; the number of students on the two teams must not differ by more than 1; the total weight of the students on each team should be as nearly equal as possible.

## Input:

The first line of input contains N number of students. This is followed by N lines. Each of these lines gives the weight of a given student.

```
5  
80  
60  
120  
50  
60
```

## Output

Your output will be a single line containing 2 numbers: the total weight of the people on one team, and the total weight of the people on the other team. If these numbers differ, give the lesser first.

```
180 190
```