

There are four part in this question.

PART 1:

You have to set a class which have the information of fruit, include **name** and **cost**.

We will give 5 kind of fruit and its cost as below.

apple	10
banana	5
orange	20
watermelon	50
lemon	15

PART 2:

You have to set a class which have the information of guests, include **name** and how much **money** they spend. **We will type 3 guests and what they buy.**

Besides, you have to push how much they cost into an integer vector, sort the cost, and print the sorted cost.

Also, you have to save what the guests buy, which will be used in PART 4.

WARNING:

- The information of fruit should come from the class you set in part 1.
- You cannot use the sort function; you have to write it yourself.
- When sort the money, you cannot sort the money before you push in to vector, which means you have to sort it with iterator, and so does print.

PART 3:

In this part, you have to write a class vector, which have the information of the guest above, and print the guest name and the money.

WARNING:

- Use iterator to print name and money.

PART 4:

Since you have to save what the guest buy in part 2, you have to use a two dimensions vector to show them.

WARNING:

You have to use two dimensions to show the fruit they buy, but you have to show who buy them.

```
part 1 :  
apple 10  
banana 5  
orange 20  
watermelon 50  
lemon 15  
part 2 :  
alan  
3  
apple 2  
banana 3  
orange 1
```

```
lisa  
1  
watermelon 2  
dog  
2  
lemon 2  
orange 3  
100  
90  
55  
part 3 :  
alan 55  
lisa 100  
dog 90
```

```
part 4 :  
apple banana orange  
watermelon  
lemon orange
```

Red parts are the output.