Mechanics' appointments before

```
Ayman:
Appointment number (1) -> 10: 40
Appointment number (2) -> 9: 15
Khaled:
Appointment number (1) -> 9: 30
Mai:
Appointment number (1) -> 9: 0
Appointment number (2) -> 5: 30
Appointment number (3) -> 7: 15
```

Mechanics' appointments after

```
Ayman:
Appointment number (1) -> 10: 40
Appointment number (2) -> 9: 15
Appointment number (3) -> 1: 0
Khaled:
Appointment number (1) -> 9: 30
Appointment number (2) -> 4: 0
Appointment number (3) -> 1: 0
Mai:
Appointment number (1) -> 9: 0
Appointment number (1) -> 9: 0
Appointment number (2) -> 5: 30
Appointment number (3) -> 7: 15
Appointment number (4) -> 3: 0
```

Asks for the number of customers to create a dynamic array

```
Enter the number of the customers : 4
```

Enter the data of the customers manually before using files

```
Enter your name : Ahmed

Enter your age : 25

Enter your appointment (ex: 1 30) : 1 0

Enter your name : Sara

Enter your age : 29

Enter your appointment (ex: 1 30) : 4 0

Enter your name : Kareem

Enter your appointment (ex: 1 30) : 3 0

Enter your name : Mohammed

Enter your age : 40

Enter your appointment (ex: 1 30) : 1 0
```

Validation to make sure that the appointments are real

```
Enter your appointment (ex: 1 30) : 25 0
Enter valid appointment!!
Enter the hours (0-24) :

Enter your appointment (ex: 1 30) : 24 0
Enter your name :

Enter your appointment!!
Enter the hours (0-24) :

Enter valid appointment!!
Enter the hours (0-24) :

Enter valid appointment!!
Enter the hours (0-24) :
```

The cout for the array before sorting

```
Mr/s. Ahmed should be assigned to Ayman at 1:0.
Mr/s. Sara should be assigned to Khaled at 4:0.
Mr/s. Kareem should be assigned to Mai at 3:0.
Mr/s. Mohammed should be assigned to Khaled at 1:0.
```

The cout for the queue after sorting

Mr/s. Ahmed has an appointment at 1:0 with Ayman. Mr/s. Mohammed has an appointment at 1:0 with Khaled. Mr/s. Kareem has an appointment at 3:0 with Mai. Mr/s. Sara has an appointment at 4:0 with Khaled.