1. Applications of Linked List and Queue

Coco owns a theme park called "Istana Boneka" which uses boats to explore the ethnic cultures throughout Indonesia. Each boat can accommodate 4 visitors. Coco sells 2 types of tickets, namely FAST_TRACK and REGULER. The FAST_TRACK ticket allows visitors to skip the REGULER queue and get priority. If visitors have the same type of ticket, the first one to register will be given priority (First In First Serve). To make it easier, Coco wants to create a queue program using the priority queue concept with a double linked list. The program has 3 main features:

REGISTER, used to add visitors. The REGISTER feature has the format **REGISTER N1**, where **N1** is the **number of visitors** who want to play. In the next line, program will ask you to enter **name visitor** and **ticket types** according to the number of N1. After successfully adding, the queue list will be displayed in the format "No Name Ticket".

CALL, used to call the **top 4 visitors** in the queue. After successfully called, the list of visitors who board the boat will be show in the format "[list of visitors] got into the boat" and the remaining queue in the format "[total remaining queue] queues remaining". If there are less than 4 visitors in the queue, only those visitors in the queue will be called.

REMOVE, used to remove visitors who did not show up. The **REMOVE** feature has the format **REMOVE N2**, where **N2** is the number of visitors who did not show up. In the next line, program will ask you enter names of visitors who did not show up according to the number of N2. After successfully removing, the queue list will be displayed in the format "No Name Ticket".

Contraints:

1 <= N1 <=1000 1 <= N2 <=1000 1 <= |name of visitor| <=10 1 <= |ticket types| <=10

|name of visitor| is the length of the string (1 word) |ticket types| is the length of the string (1 word)

Sample:

Sample:	
Input	Output
REGISTER 7	No Name Ticket
Ani FAST_TRACK	1 Ani FAST_TRACK
Bani REGULER	2 Cani FAST_TRACK
Cani FAST_TRACK	3 Eni FAST_TRACK
Dani REGULER	4 Bani REGULER
Eni FAST_TRACK	5 Dani REGULER
Fani REGULER	6 Fani REGULER
Gani REGULER	7 Gani REGULER
REMOVE 2	
Bani	No Name Ticket
Dani	1 Ani FAST_TRACK
REGISTER 2	2 Cani FAST_TRACK
Ani FAST_TRACK	3 Eni FAST_TRACK
Bani REGULER	4 Fani REGULER
CALL	5 Gani REGULER
CALL	
	No Name Ticket
	1 Ani FAST_TRACK
	2 Cani FAST_TRACK
	3 Eni FAST_TRACK
	4 Ani FAST_TRACK
	5 Fani REGULER
	6 Gani REGULER
	7 Bani REGULER
	Ani Cani Eni Ani got into the boat.
	3 queues remaining.
	Fani Gani Bani got into the boat.
	0 queues remaining.

```
Name
                 Ticket
                 FAST_TRACK
1
2
3
4
5
6
    Ani
                 FAST_TRACK
    Cani
                 FAST_TRACK
    Eni
    Bani
                 REGULER
    Dani
                 REGULER
    Fani
                 REGULER
    Gani
                 REGULER
REMOVE 2
Bani
Dani
No Name
                 Ticket
    Ani
                 FAST_TRACK
                 FAST_TRACK
FAST_TRACK
REGULER
    Cani
    Eni
4
    Fani
    Gani
5
                 REGULER
REGISTER 2
Ani FAST_TRACK
Bani REGULER
No Name
                 Ticket
                 FAST_TRACK
FAST_TRACK
FAST_TRACK
    Ani
    Cani
3
    Eni
                 FAST_TRACK
    Ani
    Fani
                 REGULER
6
                 REGULER
    Gani
    Bani
                 REGULER
Ani Cani Eni Ani got into the boat.
3 queues remaining.
CALL
Fani Gani Bani got into the boat.
0 queues remaining.
```

-- Selamat Mengerjakan --

^{*}Answer the case on Dev C++. The file extension to be uploaded is .c