

## **Question:** [Stand in a queue]

### **Content:**

In the real world, we have to line up as a queue when resources are not enough. Thus, we would like you to present a queue by stack. It require an **enqueue** and **dequeue** functions. Also, queue's condition need to be considered, such as being **empty** or **full**. Print the **whole queue and front & rear position** after each action.

### **Input:**

Insert a int in a line, and user will insert many times.

### **Output:**

You have to provide a user function.

1. Enqueue     => insert the number
2. Dequeue     => delete the number
3. Exit         => exit the program

When you got an instruction by user, you should output the form followed. (1<sup>st</sup> line is **"Queue"**, 2<sup>nd</sup> line is **"Front at position"** , 3<sup>rd</sup> line is **"Back at position"**)

Each number has to be separated by a space.

8 7 5

1

3

### **Sample Input:**

1

9

1

5

1

10

2

9

**Sample Output:**

9

1

1

9 5

1

2

9 5 10

1

3

5 3

2

3