

任务1：完成HW4（即英文图片中的题目），可以任选一个顺序队列来实现（加size的，或不加size的，压缩包中有参考代码，但建议自己编写）。

任务2：按照以下定义完成不带头结点的链式队列，并测试。（教材上的链式队列是带头结点的，两者实现起来稍有不同）

```
typedef struct node {
    ElemType elem;
    struct node *next;
} Node;
typedef struct queue {
    Node * front;
    Node * rear;
} Que
```

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2. Write a function that will read one line of input from the terminal. The input is supposed to consist of two parts separated by a colon ':'. As its result, your function should produce a single character as follows:

- 4 N No colon on the line.
- 3 L The left part (before the colon) is longer than the right.
- 2 R The right part (after the colon) is longer than the left.
- 1 D The left and right parts have the same length but are different.
- 0 S The left and right parts are exactly the same.

Examples:	Input	Output
	Sample Sample	N
	Short:Long	L
	Sample:Sample	S

Use a queue to keep track of the left part of the line while reading the right part.