Tasks Planner



Create a program that helps you organize your daily tasks. First, you are going to receive the hours each task takes on a single line, separated by space, in the following format:

Each task takes from 1 to 5 hours. If its time is set to 0 – it is completed. If its time is set to a negative number – the task is **dropped**.

Then you will start receiving **commands** until you read the "**End**" message. There are **six** possible commands:

- "Complete {index}"
 - o Find the task on this index in your collection and complete it, if the index exists.
- "Change {index} {time}"
 - o Replace the time needed of the task on the given index with the time given, if the index exists.
- "Drop {index}"
 - o **Drop** the task on the given **index**, **setting its hour to -1**, if the **index exists**.
- "Count Completed"
 - o Print the number of **completed** tasks.
- "Count Incomplete"
 - o Print the number of **incomplete** tasks (this **doesn't include** the **dropped** tasks).
- "Count Dropped"
 - o Print the number of **dropped** tasks (this **doesn't include** the **incomplete** tasks).

In the end, print the incomplete tasks on a single line, separated by a single space in the following format:

```
"{task<sub>1</sub>} {task<sub>2</sub>} {task<sub>3</sub>}... {task<sub>n</sub>}"
```

Input

- On the 1st line you are going to receive the time of each task, separated by a single space.
- On the next **lines**, until the **"End"** command is received, you will be receiving commands.

Output

Print the tasks in the **format described above**.

















Examples

Input	Output
1 -1 2 3 4 5	2
Complete 4	4 2 5
Change 0 4	
Drop 3	
Count Dropped	
End	

Comments

First, we receive the command "Complete 4" and we to complete the task on index 4. After this command, the task collection looks like this:

1 -1 2 3 0 5

Afterwards, we receive the "**Change 0 4**" command and we need to change the time of the task on index 0. The collection looks like this now:

4 -1 2 3 0 5

After, we receive the "**Drop 3**" command, which means we need to drop the task on index 3. The collection looks like this:

4 -1 2 -1 0 5

Then, we receive the "Count Dropped" command. The result is 2 as we have only 2 dropped tasks.

In the end, we print all of the **incomplete** tasks. This is the result collection:

4 2 5

1 2 3 4 5 4 0 3 2 1	4
Complete 0	1 4 3 2 1
Complete 1	
Complete 2	
Drop 3	
Change 4 1	
Count Completed	
End	















