# Problem E: Duplicate Removal

Source file: `dup.{c, cpp, java}`

Input file: `dup.in`

The company *Al's Chocolate Mangos* has a web site where visitors can guess how many chocolate covered mangos are in a virtual jar. Visitors type in a guess between 1 and 99 and then click on a "Submit" button. Unfortunately, the response time from the server is often long, and visitors get impatient and click "Submit" several times in a row. This generates many duplicate requests.

Your task is to write a program to assist the staff at *ACM* in filtering out these duplicate requests.

**Input:** The input consists of a series of lines, one for each web session. The first integer on a line is $N$, $0 < N \le 25$, which is the number of guesses on this line. These guesses are all between 1 and 99, inclusive. The value $N = 0$ indicates the end of all the input.

**Output:** For each input data set, output a single line with the guesses in the original order, but with consecutive duplicates removed. Conclude each output line with the dollar sign character '$'. Note that there is a single space between the last integer and the dollar sign.

| Example Input: | Example Output: |
| --- | --- |
| `5 1 22 22 22 3`<br>`4 98 76 20 76`<br>`6 19 19 35 86 86 86`<br>`1 7`<br>`0` | `1 22 3 $`<br>`98 76 20 76 $`<br>`19 35 86 $`<br>`7 $` |

*Last modified on October 15, 2009 at 1:07 AM.*