Question 1

Programming Challenge Description:
Assume that someone dictates you a sequence of numbers and you need to write it down. For brevity, he dictates it as follows: first says the number of consecutive identical numbers and then says the number itself. E.g. The sequence 1 1 3 3 3 2 2 2 2 14 14 14 11 11 11 2 will be dictated as "Two ones, three threes, four twos, three fourteens, three elevens, one two", so you will write down the sequence 2 1 3 3 4 2 3 14 3 11 1 2. The challenge is to write the program which compresses the given sequence using this approach.
Input:
Your program should read lines from standard input. Each line is a sequence of L integers, where each integer is N, separated by a whitespace. N is in range [0, 99]. L is in range [1, 400].
Output:
For each test case, produce a single line of output containing a compressed sequence of numbers separated by a single space char.

Test 1

Test Input 💾

```
40 40 40 40 29 29 29 29 29 29 29 29 57 57 92 92 92 92
92 86 86 86 86 86 86 86 86 86 86
```

Expected Output 💾

```
4 40 8 29 2 57 5 92 10 86
```

Test 2

Test Input 💾

```
7
```