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Dashboard > **Python** > **Collections** > **Word Order**                                    **Points: 355  Rank: 20168**

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# Word Order 🔖

H   **by sandyeep**

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You are given $n$ words. Some words may repeat. For each word, output its number of occurrences. The output order should correspond with the input order of appearance of the word. See the sample input/output for clarification.

**Note:** Each input line ends with a **"\n"** character.

**Constraints:**
$1 \leq n \leq 10^5$
The sum of the lengths of all the words do not exceed $10^6$
All the words are composed of lowercase English letters only.

**Input Format**

The first line contains the integer, $n$.
The next $n$ lines each contain a word.

**Output Format**

Output $2$ lines.
On the first line, output the number of distinct words from the input.
On the second line, output the number of occurrences for each distinct word according to their appearance in the input.

**Sample Input**

```
4
bcdef
abcdefg
bcde
bcdef
```

**Sample Output**

```
3
2 1 1
```

**Explanation**

There are $3$ distinct words. Here, **"bcdef"** appears twice in the input at the first and last positions. The other words appear once each. The order of the first appearances are **"bcdef"**, **"abcdefg"** and **"bcde"** which corresponds to the output.

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**Submissions:** 9914

**Max Score:** 50

**Difficulty:** Medium

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```python
 1  from collections import OrderedDict
 2
 3  n = int(input().strip())
 4
 5  od = OrderedDict()
 6  for i in range(n):
 7      name = input().strip()
 8      try:
 9          od[name] = od[name] + 1
10      except KeyError:
11          od[name] = 1
12  print(len(od))
13  print(*list(od.values()), sep=' ')
```

Line: 12 Col: 15

⬆ Upload Code as File        ☐ Test against custom input                              Run Code      Submit Code

Testcase 0 ✔

**Congratulations, you passed the sample test case.**

Click the **Submit Code** button to run your code against all the test cases.

**Input (stdin)**

```
4
bcdef
abcdefg
bcde
bcdef
```

**Your Output (stdout)**

```
3
2 1 1
```

**Expected Output**

```
3
2 1 1
```