2001. Counting Sheep

Time Limit: 0.5 Seconds Memory Limit: 65536K
Total Runs: 7489 Accepted Runs: 2079

After a long night of coding, Charles Pearson Peterson is having trouble sleeping. This is not only because he is still thinking about the problem he is working on but also due to drinking too much java during the wee hours. This happens frequently, so Charles has developed a routine to count sheep. Not the animal, but the word. Specifically, he thinks of a list of words, many of which are close in spelling to "sheep", and then counts how many actually are the word "sheep". Charles is always careful to be case-sensitive in his matching, so "Sheep" is not a match. You are to write a program that helps Charles count "sheep".

Input

Input will consist of multiple problem instances. The first line will consist of a single positive integer n ≤ 20, which is the number of problem instances. The input for each problem instance will be on two lines. The first line will consist of a positive integer m ≤ 10 and the second line will consist of m words, separated by a single space and each containing no more than 10 characters.

Output

For each problem instance, you are to produce one line of output in the format:

```
Case i: This list contains n sheep.
```

The value of i is the number of the problem instance (we assume we start numbering at 1) and n is the number of times the word "sheep" appears in the list of words for that problem instance. Two successive lines should be separated by a single blank line, but do not output any trailing blank line.

Sample Input

```
4
5
shep sheeps sheep ship Sheep
7
sheep sheep SHEEP sheep shepe shemp seep
10
sheep sheep sheep sheep sheep sheep sheep sheep sheep sheep
4
shape buffalo ram goat
```

Sample Output

```
Case 1: This list contains 1 sheep.

Case 2: This list contains 3 sheep.

Case 3: This list contains 10 sheep.

Case 4: This list contains 0 sheep.
```

Source: *East Central North America 2000 Practice*

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