Histogram by the Hundreds   X91984_en

Write a program that reads a sequence of nonnegative integers and reports the histogram by the hundreds: write out how many numbers were between 0 and 99, how many between 100 and 199, how many between 200 and 299, and so on.

Input

The data sequence is to be provided completely in a single line, with spaces separating the consecutive numbers.

Output

For each interval $[N, M]$, where N is a multiple of 100 and $M = N + 99$, such that some value in the input sequence belongs to the interval, write a line reporting the interval (with its square brackets and its comma and space), immediately followed by a colon and a space, and then the quantity of numbers in the input falling within that interval. The intervals must be ordered according to their left endpoint N.

Sample input 1

```
7483 1398745 11243 42 135 35 53 134 2436 246 257 3464 57 457 387 380
```

Sample output 1

```
[0, 99]: 5
[100, 199]: 2
[200, 299]: 2
[300, 399]: 2
[400, 499]: 1
[2400, 2499]: 1
[3400, 3499]: 1
[7400, 7499]: 1
[11200, 11299]: 1
[1398700, 1398799]: 1
```

Sample input 2

```
1 2 3 4 5 6 7 8 9 100
```

Sample output 2

```
[0, 99]: 9
[100, 199]: 1
```

Problem information

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