Dice Pairs (3)   X38896_en

The statement is the same as with Dice Pairs (2): we run several experiments and, in each experiment, we have been throwing a pair of dice repeatedly, recording the outcome. However, now there is no zero finishing the data for each experiment; instead, each experiment comes in a single line of the input. Again, you must write a program that, for each such experiment, reads the sequence of outcomes and prints out the histogram.

Input

Input is a sequence of experiments. Each experiment consists of the outcomes of the corresponding dice throws, all of them provided in a single line.

Output

For each experiment, print the histogram under the same conditions as in Dice Pairs (1) and (2). Print a line with five dashes between each two histograms — note that this condition is not the same as in Dice Pairs (2).

Sample input 1

```
7 5 4 5 8 8 4 8 8 7
9 7 7 9 9 8 10 9 8 8 4 5 4 8 5 6 5 9 8 7
6 8 12 5
```

Sample output 1

```
4: 2
5: 2
7: 2
8: 4
-----
4: 2
5: 3
6: 1
7: 3
8: 5
9: 5
10: 1
-----
5: 1
6: 1
8: 1
12: 1
```

Problem information

Author: José Luis Balcázar

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