
Dice Pairs (2)

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We want to run several experiments like those of the problem Dice Pairs (1). In each experiment, we have been throwing a pair of dice repeatedly, recording the outcome. Write a program that, for each of the experiments in a series of them, reads the sequence of outcomes of the experiment and prints out the histogram, under the same conditions as in Dice Pairs (1).

Input

Input is a sequence of experiments. Each experiment consists of the outcomes of the corresponding dice throws. The end of the data for each single experiment is indicated by a zero.

Output

Print the successive histograms corresponding to the successive experiments. After each histogram, print a line with five dashes.

Sample input

```
7 5 4 5 8 8 4 8 8 7 0
9 7 7 9 9 8 10
9 8 8 4 5 4 8
5 6 5 9 8 7 0
6 8 12 5 0
```

Sample output

```
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

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