
Bank accounts**X59374_en**

A bank account number is a sequence of 20 digits. The first four correspond to the code of the bank, the next four to the code of the office, followed by two control digits, and finally ten digits corresponding to the account number in that bank and office.

Write a program that given a list of bank account numbers, groups them by the bank they belong to, and produces a sorted list of banks, and for each bank, the total number of accounts and the list of those accounts, also sorted.

Input

The input is a sequence of bank account numbers, each of exactly 20 digits. You can assume there are no duplicate accounts in the list.

Output

The output is a sorted list of bank codes. For each bank code, the total number of accounts in that bank followed by a sorted list of account numbers is given. Follow the format in the examples.

Sample input 1

```
21000924509346087124
01129090843246676765
21002398382010141311
21006325234524234534
23120988009099091341
23123566898809991420
41016420767778101143
01129800131444123520
```

Sample output 1

```
0112: 2
      9090-84-3246676765
      9800-13-1444123520
2100: 3
      0924-50-9346087124
      2398-38-2010141311
      6325-23-4524234534
2312: 2
      0988-00-9099091341
      3566-89-8809991420
4101: 1
      6420-76-7778101143
```

Problem information

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