

Longest Potassium Compound**X80665_en**

Write a program that reads several sequences of molecules. For each sequence, the program must print the longest molecule containing some potassium (K) atom.

Input

The input consists of several sequences of molecules. Each sequence is provided as a number n , followed by n molecules.

No molecules containing Krypon (Kr) will appear in the sequences.

Output

The output is the molecule containing potassium in each sequence.

If there is not such a molecule in the sequence, the output is `none`.

If several such molecules exist, the one with the longest name is printed.

If several potassium molecules with the same name length are found, the last one should be printed.

Sample input 1

```
7 KC1 KI C2H4O2 AsH3 K2S4 K2Te H2O
4 K2Te C6H8O6 HK C9H8O4
4 K2S4 K2Se HK C8H12N4O3
7 KC1 KCN CaOH HK H2CO3 H2O NaCl
5 FeO SiO BaSO4 CaOH H2O
7 FeS CaH C9H8O4 C8H12N4O3 AsH3 O3 K2S4
```

Sample output 1

```
K2Te
K2Te
K2Se
KCN
none
K2S4
```

Sample input 2

```
5 H2O KC2N Se2K3 KCN H2O
4 C6H8O6 H2O C2H3 HCL
8 H2SO3 KCN KC1 KC1 KC1 KS4 H2O NaCl
```

Sample output 2

```
Se2K3
none
KS4
```

Problem information

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