
Equal digits**P52484_en**

Write a program that reads a sequence of lines, each one with one or more natural numbers and, for each line, if all its numbers share a single digit, tell so; otherwise, print how many numbers consist of a single digit.

Input

Input has several lines. Each line starts with a strictly positive natural number n , followed by n natural numbers.

Output

For each line of the input, if all its numbers share a single digit, tell so. Otherwise, print how many numbers of the line consist of a single digit. Follow the format of the example.

Sample input 1

```
4 666 17 2222 66
1 123456
2 8 23
2 55 5
```

Sample output 1

```
Line 1: there are 3 numbers with a single digit.
Line 2: there are 0 numbers with a single digit.
Line 3: there is 1 number with a single digit.
Line 4: all the digits are 5!
```

Problem information

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