
Sum of digits (2)

X01646_en

Write a program that reads a basis for numeration and several numbers and prints the sum in base 10 of the digits in base b of each one.

Input

Input consists of the value of $b \geq 2$ followed by a sequence of natural numbers.

Output

For every number, print the sum (in base 10) of its digits in base b following the format of the examples.

Sample input 1

```
10
29
7
0
1020
```

Sample output 1

```
29: 11
7: 7
0: 0
1020: 3
```

Sample input 2

```
4
29
7
0
1020
```

Sample output 2

```
29: 5
7: 4
0: 0
1020: 12
```

Problem information

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Generation : 2015-02-18 14:10:37

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