

---

## 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

Author: Maria Serna

Translator: Maria Serna

Generation: 2026-01-25T21:25:48.620Z

© Jutge.org, 2006–2026.

<https://jutge.org>