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The Virtual Learning Environment for Computer Programming

Numbers in base -2

P93533_en

Tercer Concurs de Programació de la UPC - Semifinal (2005-09-14)

Write a program to print numbers in base -2.

Input

Input consists of several integer numbers, each with at most nine digits.

Output

For every given number, print it in base -2 following the format of the example.

Sample input

```
0
1
2
3
-1
-2
-3
-6
10
999999999
```

Sample output

```
0: 0

1: 1

2: 110

3: 111

-1: 11

-2: 10

-3: 1101

-6: 1110

10: 11110

999999999: 1001100111011111101111000000011

-999999999: 110001011010101010101000000001
```

Problem information

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