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## Changes of base

P56549\_en

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Use recursion in order to write a program that prints every given number in binary, octal and hexadecimal notation.

### Input

Input consists of several natural numbers.

### Output

For every given number, print its binary, octal and hexadecimal notation. Follow the format of the example.

### Sample input

```
9
12
1024
0
1000000000
```

### Sample output

```
9 = 1001, 11, 9
12 = 1100, 14, C
1024 = 10000000000, 2000, 400
0 = 0, 0, 0
1000000000 = 111011100110101100101000000000, 7346545000, 3B9ACA00
```

### Problem information

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