Changes of base P56549_en

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 1

```
9
12
1024
0
1000000000
```

Sample output 1

```
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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