

## 2722 - Random Numbers

### Description

It is often necessary to generate random numbers. But how to do it if we do not have any given hand? The mathematics we provide the called pseudo-random numbers (which appear randomly generated). These numbers are simply the result of a formula in which from an initial number  $y_0$  can be generating new numbers. Our friend Nolberto want you to help him build the first 10 random numbers for a given roll to generate these numbers using the formula:

$$Y_i = (Y_j * 13821) \bmod 32768$$

Where  $Y_i$  is the next term of  $Y_j$ .

### Input specification

The input contains a single number  $0 < y_0 < 32768$

### Output specification

You have to write ten lines, each containing text " $y_i : d_i$  for  $i$  from 1 to 10, where  $y_i$  is the  $i$ -th pseudo-random number, and  $d_i$  is the roll of a dice 7 faces would correspond.

### Sample input

1

### Sample output

```
13821 : 4
15369 : 5
12773 : 6
14417 : 5
27917 : 2
30425 : 4
24949 : 2
2465 : 2
22813 : 1
4777 : 4
```

## Hint(s)

Source	José Noberto Isac González
Added by	<b>Igvallejo</b>
Addition date	2014-02-27
Time limit (ms)	10000
<b>Test limit (ms)</b>	1000
Memory limit (kb)	130000
Output limit (mb)	64
Size limit (bytes)	15000
Enabled languages	Bash C C# C++ Java Pascal Perl PHP Python Ruby Text