Recursive words   X72048_en

Deduce what has to be done in this problem by looking at the input-output examples.

Input

The input has several cases. Each one consists of a single digit d in one line.

Output

For each case from the input, the output has a `string` in a new line. Deduce the expected string for each d from the examples.

Sample input

```
0
1
2
3
4
```

Sample output

```
0
101
210121012
3210121012321012101232101210123
43210121012321012101232101210123432101210123210121012321012101233
```

Observation

The solution for this exercise must be recursive. You can either make a recursive function which directly prints the string on the output, or a function that returns the string and it is the main program who prints it. You can use a loop in the body of the function, if you wish, but the general solution must be recursive.

Problem information

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