First numbers $\hspace{4cm}$ **P37500_en**

Write a program that reads a number n, and prints all numbers between 0 and n.

Input

Input consists of a natural number n.

Output

Print in order all natural numbers between 0 and n.

Sample input 1

```
5
```

Sample output 1

```
0
1
2
3
4
5
```

Problem information

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