Play with Digit Seven

Description

A natural number x is called a good number if one or two of the next two conditions is satisfied:

- 7 is a divisor of *x*.
- 7 is a digit of *x*.

Task

Write a program that:

- reads a number *n* from the standard input,
- computes the number of good numbers in range[1,10ⁿ],
- writes the result to the standard output.

Solve the problem by at most 0.5kB of source code.

Input

The input begins with an integer $t(t \le 210)$, the number of test cases. *t* test cases follow.

For each test case, the first and only line contains an integer n (1<=n<=500).

Output

For each test case the output consists of one line that contains the answer.

Example

```
Sample input:
3
```

```
1
2
```

2

Sample output:

1 30

30 1