## 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 $\left[1,10^{n}\right]$,
- writes the result to the standard output.


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

## Input

The input begins with an integer $t(t<=210)$, 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
1

## Sample output:

1
30
1

