You are given an integer $N$. Can you find the least positive integer $X$ made up of only 9's and 0 's, such that, X is a multiple of $N$ ?

## Update

$X$ is made up of one or more occurences of 9 and zero or more occurences of 0 .

## Input Format

The first line contains an integer T which denotes the number of test cases. T lines follow. Each line contains the integer $N$ for which the solution has to be found.

## Output Format

Print the answer $X$ to STDOUT corresponding to each test case. The output should not contain any leading zeroes.

## Constraints

$1<=T<=10^{4}$
$1<=N<=500$

## Sample Input

```
3
5
7
1
```


## Sample Output

90
9009
9

## Explanation

90 is the smallest number made up of 9 's and 0 's divisible by 5 . Similarly, you can derive for other cases.
Timelimits Timelimits for this challenge is given here

