

# Special Multiple



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 occurrences of 9 and zero or more occurrences 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

$1 \leq T \leq 10^4$   
 $1 \leq N \leq 500$

## 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](#)