# Project Euler \#41: Pandigital prime 

This problem is a programming version of Problem 41 from projecteuler.net
We shall say that an $n$-digit number is pandigital if it makes use of all the digits 1 to $n$ exactly once. For example, 2143 is a 4 -digit pandigital and is also prime.

What is the largest $n$-digit pandigital prime $\leq N$ ? If there is none, print - 1

## Input Format

First line contains $T$ that denotes the number of test cases. This is followed by $T$ lines, each containing an integer, $N$.

## Constraints

$1 \leq T \leq 10^{5}$
$10 \leq N \leq 10^{10}-1$

## Output Format

Print the required answer for each test case.

## Sample Input

2
100
10000

## Sample Output

[^0]
[^0]:    -1
    4231

