# Project Euler \#4: Largest palindrome product 

This problem is a programming version of Problem 4 from projecteuler.net
A palindromic number reads the same both ways. The smallest 6 digit palindrome made from the product of two 3 -digit numbers is $101101=143 \times 707$.

Find the largest palindrome made from the product of two 3-digit numbers which is less than $N$.

## 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

- $1 \leqslant T \leqslant 100$
- $101101<N<1000000$


## Output Format

Print the required answer for each test case in a new line.

## Sample Input 0

## 2

101110
800000

## Sample Output 0

101101
793397

## Explanation 0

- 101101 is product of 143 and 707 .
- 793397 is product of 869 and 913 .

