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Project Euler #4: Largest palindrome product



Problem

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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.

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Submissions: 13755 Max Score: 100 Difficulty: Medium

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