

Special Primes

Juliet loves prime numbers. Romeo thought of gifting her prime numbers for her birthday. In order to impress her, he wants to give her special prime numbers. A prime number P is called special if you keep removing a digit from the right hand end of P , each of the remaining numbers is also prime. For example 7,39,39,133 is a prime number, when you keep on removing the right most digit, the new number obtained is also a prime number (7, 73, 739, 7393, 73939, 739391, 7393913, 73939133). He wants to know the number of special primes less than n .

Input Format :

First line of Test file contains t , the number of test cases and the next t lines contain n in each line.

Output Format :

Print the number of special numbers less than n . Test cases must be separated by a new line.

Constraints :

$1 \leq t \leq 10$

$1 \leq n \leq 100000000$

Sample Input:

2
10
25

Sample Output:

4
5

Explanation:

Special primes less than 10 : 2, 3, 5, 7

Special primes less than 25 : 2, 3, 5, 7, 23

