Project Euler #7: 10001st prime

HackerRank

This problem is a programming version of Problem 7 from projecteuler.net

By listing the first six prime numbers: 2, 3, 5, 7, 11 and 13, we can see that the 6^{th} prime is 13. What is the N^{th} prime number?

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

- $1\leqslant T\leqslant 10^3$
- $1 \leqslant N \leqslant 10^4$

Output Format

Print the required answer for each test case.

Sample Input 0

2 3 6

Sample Output 0

5 13

Explanation 0

The first 10 prime numbers are

 $\{2, 3, 5, 7, 11, 13, 17, 19, 23, 29\}$

we can see that 3^{rd} prime number is 5 and 6^{th} prime number is 13