**Question 10 :A Good Prime Number**

**Problem Statement  :**

A prime number is a number which is divisible by one and itself. Also a number is called a good  prime number if the sum of its digits is a prime number. For example a number 23 is a good prime number because the sum of 2 and 3 ( 2+3=5) is 5 which is a prime number. You are given an integer K. Your task is to find the kth good prime number that is greater than a provided number N.

**For example** , 232 is a good prime number since the sum of all digits is 7 which is a prime number whereas 235 is not a good prime number.

Input format :

* The first line contains an integer N.
* The next line contains an integer K.

**Output format :**

A single integer which is a Kth good prime number that is greater than a provided number N.

**Constraints :**

* 1<=N<=10^5
* 1<=K<<=10^5

**Sample Input 1:**

4  4

**Sample Output 1:**

12

**Explanation :**

Good prime numbers starting from 4 are 5,7,11(1+1=2 which is prime number),12(1+2=3 which is prime number),14(1+4=5 which is a prime number) and so on. Because the sum of digits of an individual number is a prime number And 4 th good prime number is 12 in this series.Hence the output is 12.

**Sample Input 2:**

17  5

**Sample Output 2:**

29

**Explanation :**

Good prime numbers starting from 17 are 20,21,23,25,29…and the 5th prime number is 29.Hence the output is 29.