406410114 UVA10235 Simply Emirp

```
//number N
//prime:  43 34
//emirp:  17 71
//not prime: com

#include <bits/stdc++.h>
using namespace std;


int main(){
        int i,j,k,num;
        vector <bool> prime_tb(1000005,true);



        for ( i = 2; i< 1000005;i++ ){
                if (prime_tb[i] ==true){
                        for ( j = i+i; j < 1000005; j+=i )
                                prime_tb[j] = false;
                }//if
        }//for
        /*
        for ( i =0 ; i <100 ;i++ )
                cout <<prime_tb[i] << " ";
        cout <<endl;
        */
//prime:  43 34
//emirp:  17 71
//not prime: com

        while ( cin >>num){
                cout << num ;
                int numtemp = num;
                if ( prime_tb[num] == false )
                         cout << " is not prime.\n";
                else{// prime_tb[num] == true
                        int inver_num = 0;
                        while ( numtemp != 0 ){
                                inver_num *= 10;  //times 10
                                inver_num += numtemp%10; // add end
                                numtemp /=10; // forward
                        }//while

                        //cout << "inver_num :" << inver_num<<endl;
                        if ( inver_num !=num && prime_tb[inver_num] == true )
                                cout << " is emirp.\n";
                        else
                                cout << " is prime.\n";
                }//else

        }//while

        return 0 ;
}//main
```