

406410114 UVA10093 An Easy Problem!

```
//input 2<=N<=62
//output int ot such number is impossible!

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

int main(){

    char digit_table[62] = { '0' };
    int i,j,k,t;
    char c;
    c = getchar();
    int sum = 0,max_bit= 0;
    while ( c != EOF ){
        if ( c >= '0' && c <= '9' ){
            t = (c - '0');
            sum+= t;
            max_bit = max( t,max_bit );
        }//if
        else if ( c >= 'A' && c <='Z' ){
            t =(c - 'A')+10;
            sum+= t;
            max_bit=max(t,max_bit );
        }//else if
        else if ( c >= 'a' && c <='z' ){
            t = (c - 'a')+36;
            sum+= t;
            max_bit = max( t,max_bit );
        }//else if
        else if ( c == '\n' ){
            //cout << "max_bit:" <<max_bit <<endl;
            for ( i = max_bit ; i < 62 ;i++ ){
                if ( sum == 0 ){
                    cout << "2\n";
                    break;
                }//if

                else if ( sum%i == 0 ){
                    cout << i+1 <<endl;
                    break;
                }//else if
            }//for

            if ( i ==62 )
                cout << "such number is impossible!" <<endl;
            max_bit=0;
            sum=0;
        }//else if

        c = getchar();

    }//while
    return 0;

}

//main
```