

```

#include <iostream>
#include <stdio.h>
#define BLACK    "\033[0;30m"
#define RED      "\033[0;31m"
#define GREEN    "\033[0;32m"
#define YELLOW   "\033[0;33m"
#define BLUE     "\033[0;34m"
#define PURPLE   "\033[0;35m"
#define CYAN     "\033[0;36m"
#define GREY     "\033[0;37m"
#define GREY     "\033[1;37m"
int prime(int atester)
{
    bool pastrouve=true;
    unsigned long k = 2;
    if (atester == 1) return 0;
    if (atester == 2) return 1;
    if (atester == 3) return 1;
    if (atester == 5) return 1;
    if (atester == 7) return 1;
    while (pastrouve)
    {
        if ((k * k) > atester) return 1;
        else
            if ((atester % k) == 0) {
                return 0 ;
            }
            else k++;
    }
}
int main (int argc, char* argv[])
{
    int x, y, res ;
    for (y = 0 ; y <= 16 ; ++y)
    {
        for (x = 0 ; x <= 16 ; ++x)
        {
            res = y+((x+y)*(x+y+1))/2 ;
            if (prime(res)) std::cout << "\033[0;32m" ;
            else std::cout << "\033[1;37m" ;
            printf("%5d  ",res) ;
        }
        std::cout << "\n\n" ;
    }
}

```