

1.

```
#include<bits/stdc++.h>
using namespace std;
int power(int x, unsigned int y)
{
    if( y == 0)
        return 1;
    if (y%2 == 0)
        return power(x, y/2)*power(x, y/2);
    return x*power(x, y/2)*power(x, y/2);
}
int order(int x)
{
    int n = 0;
    while (x)
    {
        n++;
        x = x/10;
    }
    return n;
}
bool isArmstrong(int x)
{
    int n = order(x);
    int temp = x, sum = 0;
    while (temp)
    {
        int r = temp%10;
        sum += power(r, n);
        temp = temp/10;
    }

    return ( sum==x);
    if(sum==x)
    {
        cout<< "yes"<<endl;
    }
    else
    {
        cout<<"no"<<endl;
    }
}
```

```

}
int main()
{
    int x = 1253;

    cout << isArmstrong(x) << endl;
    x = 1634;
    cout << isArmstrong(x) << endl;
    return 0;
}

```

0. ////

```

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

```

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void findFirstAndLast(int arr[], int n, int x)
{
    int first = -1, last = -1;
    for (int i = 0; i < n; i++) {
        if (x != arr[i])
            continue;
        if (first == -1)
            first = i;
        last = i;
    }
    if (first != -1)
        cout << "First Occurrence = " << first
              << "\nLast Occurrence = " << last;
    else
        cout << "Not Found";
}

```

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int main()

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{
    int arr[] = {1, 3, 5, 5, 5, 5, 7, 123, 125 };
    int n = sizeof(arr) / sizeof(int);
    int x = 7;
    findFirstAndLast(arr, n, x);
    return 0;
}

```

3.////

```

#include <bits/stdc++.h>
using namespace std;
int main() {
    int low, high, i;
    bool isPrime = true;

    cout << "Enter low and high: ";
    cin >> low >> high;

    cout << "\nPrime numbers between low and high:" << low << " and " <<
high << " are: " << endl;

    while (low < high) {
        isPrime = true;
        if (low == 0 || low == 1) {
            isPrime = false;
        }
        else {
            for (i = 2; i <= low / 2; ++i) {
                if (low % i == 0) {
                    isPrime = false;
                    break;
                }
            }
        }

        if (isPrime)
            cout << low << " ";

        ++low;
    }
}

```

```

    }

    return 0;
}

```

4.///

```

#include <bits/stdc++.h>
using namespace std;
void starp(int n)
{
    int i = 0, j = 0, k = 0;
    while (i < n) {

        while (k < (n - i)) {
            cout << " ";
            k++;
        }

        k = 0;
        while (j <= i) {
            cout << "*";
            j++;
        }

        j = 0;
        i++;
        cout << endl;
    }
}

```

```

int main()
{
    int n = 5;
    starp(n);
    return 0;
}

```

```

5.///
#include<bits/stdc++.h>
using namespace std;

void changeCs(char str[])
{
    for (int i=0; str[i]!='\0'; i++)
    {
        if (str[i]>='A' && str[i]<='Z')
            str[i] = str[i] + 'a' - 'A';
        else if (str[i]>='a' && str[i]<='z')
            str[i] = str[i] + 'A' - 'a';
    }
}

int main()
{
    char str[] = "ProGraMMer";
    changeCs(str);
    cout << "String after toggle " << endl;
    cout << str << endl;
    return 0;
}

```