

Que 1

Removing Duplicates from a given sentence

```
#include <iostream.h>
using namespace std;

char *removeDuplicate(char str[], int n)
{
    int index = 0;

    for (int i=0; i<n; i++) {

        int j;
        for (j=0; j<i; j++)
            if (str[i] == str[j])
                break;

        if (j == i)
            str[index++] = str[i];
    }

    return str;
}

int main()
{
    char str[] = "silence is a source of
great strength";
    int n = sizeof(str) / sizeof(str[0]);
    cout << removeDuplicate(str, n);
    return 0;
}
```

Que 2

program to validate Email and URL

```
#include<iostream>
#include<regex>
#include<stdio.h>
using namespace std;
bool Email_check(string email)
{
    const regex pattern("(\\w+) (\\.|_)? (\\w*)@ (\\w+) (\\. (\\w+)) +");
    return regex_match(email, pattern);
}
int main()
{
    string str;
    cout<<"Enter your Email-Id:"<<endl;
    cin>>str;
    if(Email_check(str))
        cout<<"Your Email-Id is valid"<<endl;
    else
        cout<<"Your Email-Id is invalid"<<endl;
    return 0;
}
```

Que 3.

Program to find all the missing elements in the given range is discussed here. In this program, we have two inputs:

```
#include <iostream.h>
using namespace std;

int getMissingNo(int a[], int n)
{
    int total = (n + 1) * (n + 2) / 2;
    for (int i = 0; i < n; i++)
        total -= a[i];
    return total;
}

int main()
{
    int arr[] = { 1, 2, 4, 5, 6 };
    int n = sizeof(arr) / sizeof(arr[0]);
    int miss = getMissingNo(arr, n);
    cout << miss;
}
```