1.

```
#include <bits/stdc++.h>

using namespace std;



void f(char* S)
{



    if (S[0] == '\0')
        return;



    if (S[0] == S[1]) {



        int i = 0;
        while (S[i] != '\0') {
            S[i] = S[i + 1];
            i++;
        }



        f(S);
    }
```

```
  f(S + 1);
    }


int main()
{

    char S[] = "kishanmishra";
   f(S);
    cout << S << endl;

    return 0;
    }
```

2.

```
int f1(int arr[], int size)
{

    int max_ending_here = 0, max_so_far = INT_MIN;
    for (int i = 0; i < size; i++) {

        if (arr[i] <= max_ending_here + arr[i]) {
            max_ending_here += arr[i];
        }
```

```
        else {
            max_ending_here = arr[i];
        }
        if (max_ending_here > max_so_far)
            max_so_far = max_ending_here;
    }
    return max_so_far;
}

int main()
{

    int a[] = {0,1,2, 4, -1, -2, 1, 5, -3};
    int n = sizeof(a)/sizeof(a[0]);
    int max_sum = f1(a, n);
    cout << "Maximum contiguous sum is " << max_sum;
    return 0;
    }
```

3.

```
#include<iostream>

using namespace std;
```

```
int removeDuplicates(int arr[], int n)
{

    if (n==0 || n==1)
        return n;



    int j = 0;



    for (int i=0; i < n-1; i++)
        if (arr[i] != arr[i+1])
            arr[j++] = arr[i];


    arr[j++] = arr[n-1];


    return j;
    }



int main()
{

    int arr[] = {1,0,2,3, 4, 4, 4, 5, 5};
    int n = sizeof(arr) / sizeof(arr[0]);
```

```
n = removeDuplicates(arr, n);



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

    cout << arr[i] << " ";


return 0;

}
```