**Data Structures and Algorithm**

Q1 Max Subsequence of 0,1

#include<std/bitsc++.h>

using namespace std;

int subsequence(string str1, int Len\_str){

int count1 = 0;

int count2= 0;

int max\_len = 0;

if(Len\_str <0){

cout << “Empty String Given”;

}

else{

for(int i = 0; i<Len\_str ; i++){

if(str1[i] == 0){

count1 += 1;

}

else if(str[i] == 1){

count2 += 1;

}

}}

if(count1 != count2){

if(count1 > count2){

max\_len = count2 + count2;

}

else if(count2>count1) ){

max\_len = count1 + count1;

}

}

else if(count1 == count2) {

max\_len = count1 + count2;

}

return max\_len;

}

//user function end

int main(){

string str1= cin>> “enter a string: “;

int Len\_str = str1.length();

subsequence(string str1, int Len\_str);

return 0;

}

Q2 Palindrome

#include(bits/stdc++.h)

using namespace std;

int main(){

string str2 = cin>>’enter a string :’;

int length\_str = str2.length();

string str3 = str2.reverse();

if(str3 == str2){

cout<< True;

}

else{

cout<<False;

}

return 0;

}

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