

[Type here]

```
#include<stdio.h>
#include<string.h>
void main()
{
    char s[100];
    int i,flag,flag1,a,b;    int
l,count1,count2;    printf("enter
a string to check:");
    scanf("%s",s);
    l=strlen(s);
flag=1;
    for(i=0;i<l;i++)
    {
        if(s[i]!='0' && s[i]!='1')
        {
            flag=0;
        }
    }
    if(flag!=1)
        printf("string is Not Valid\n");
    if(flag==1)
    {
        i=0;count1=0;
        while(s[i]=='0') // Count the no of 0s in the front
        {

count1++;
i++;
        }
        while(s[i]=='1')
        {
            i++; // Skip all 1s
        }
        flag1=1;
count2=0;
        while(i<l)
        {
            if(s[i]=='0')// Count the no of 0s at the end
            {
                count2++;
            }
            else
            {
                flag1=0;
            }

            i++;
        }
    }
}
```

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```
    }
    if(flag1==1)
    {
        if(count1==count2)
        {
            printf("The string satisfies the condition
0n1m0n\n");    printf ("String Accepted\n");
        }
        else
        {
            printf("The string does not satisfy the condition
0n1m0n\n");    printf("String Not Accepted\n");
        }
    }
    else
    {
        printf("The string does not satisfy the condition 0n1m0n\n");
        printf("String Not Accepted\n");
    }
}
}
```

```
enter a string to check:0000110000
The string satisfies the condition 0n1m0n
String Accepted

Process returned 0 (0x0)   execution time : 12.437 s
Press any key to continue.
```

```
enter a string to check:000111010
The string does not satisfy the condition 0n1m0n
String Not Accepted

Process returned 0 (0x0)   execution time : 5.875 s
Press any key to continue.
```

```
enter a string to check:10aabb01
string is Not Valid

Process returned 0 (0x0)   execution time : 6.329 s
Press any key to continue.
```