

```
#include<stdio.h>

#include<string.h>

int main()

{

char s[100];

int i,flag,flag1,flag2;

int l;

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)

{

if(l%2!=0) // If string length is odd

{

printf("The string does not satisfy the condition 0n1n\n");

printf("String Not Accepted\n");

}

else

{


```

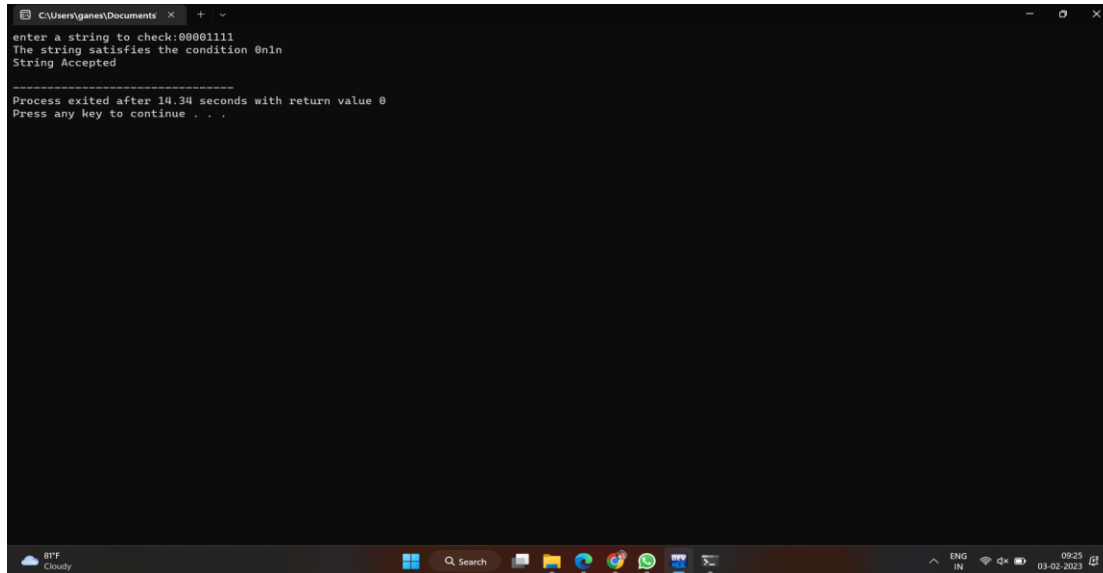
```
// To check first half contains 0s
flag1=1;
for(i=0;i<(l/2);i++)
{
if(s[i]!='0')
{
flag1=0;
}
}

// To check second half contains 1s
flag2=1;
for(i=l/2;i<l;i++)
{
if(s[i]!='1')
{
flag2=0;
}
}

if(flag1==1 && flag2==1)
{
printf("The string satisfies the condition 0n1n\n");
printf("String Accepted\n");
}
else
{
printf("The string does not satisfy the condition 0n1n\n");
printf("String Not Accepted\n");
}
}
```

```
}  
  
}
```

## Output:



```
C:\Users\Games\Documents >
enter a string to check:00001111
The string satisfies the condition 0n1n
String Accepted

-----
Process exited after 10.34 seconds with return value 0
Press any key to continue . . .
```

The screenshot shows a Windows command prompt window with a dark background. The title bar indicates the file path is C:\Users\Games\Documents. The output of the program is displayed in white text. It prompts for a string, receives '00001111', and confirms it satisfies a condition. After a pause, it shows the process exit details and a prompt to press any key to continue. The Windows taskbar is visible at the bottom, showing the Start button, search bar, and various application icons.