CHECKING WHETHER STRING BELONGS TO THE GRAMMER

```
#include<stdio.h>
#include<string.h>
int main()
char s[100];
int i,flag,flag1,a,b;
int I,count1,count2;
printf("enter a string to check: ");
scanf("%s",s);
l=strlen(s);
flag=1;
for(i=0;i<1;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')
count1++;
j++;
while(s[i]=='1')
j++;
flag1=1;
count2=0;
while(i<I)
if(s[i]=='0')
count2++;
```

```
else
{
flag1=0;
j++;
if(flag1==1)
if(count1==count2)
printf("the string satisfies the condition 0^n1^m0^n\n");
printf("string accepted\n");
}
else
printf("the string does not satisfy the condition 0^n1^m0^n\n");
printf("string not accepted\n");
else
printf("the string does not satisfy the condition 0^n1^m0^n\n");
printf("string not accepted\n");
}
}
```