CHECKING WHETHER STRING BELONGS TO THE GRAMMAR

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```
#include<stdio.h>
#include<string.h>
int main()
{
char s[100];
int i,flag,flag1,flag2;
int I;
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)
if(1\%2!=0)
printf("the string doesnot satisfy the condition 0^n1^n\n");
printf("string not accepted\n");
}
else
flag1=1;
for(i=0;i<(1/2);i++)
if(s[i]!='0')
flag1=0;
flag2=1;
for(i=1/2;i<1;i++)
```

```
if(s[i]!='1')
{
flag2=0;
}
}
if(flag1==1 && flag2==1)
{
printf("the string satisfies the condition 0^n1^n\n");
printf("string accepted\n");
}
else
{
printf("the string does not satisfies the condition 0^n1^n\n");
printf("string not accepted\n");
}
}
}
```