## 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,a,b;
int I;
printf("enter the 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)
flag1=1;
a=0;
b=I-1;
while(a!=(1/2))
if(s[a]!=s[b])
flag1=0;
a=a+1;
b=b-1;
if(flag1==1)
printf("the string is a palindrome\n");
printf("string is accepted\n");
}
else
```

```
printf("the string is not a palindrome\n");
printf("string is not accepted\n");
}
}
```