

[Type here]

```
#include<stdio.h>

#include<string.h>

#define max 20

int main () {
int trans_table [4][2] = {{1,3}, {1,2}, {1,2}, {3,3}};
int final_state=2,i;
int present_state=0;
int next_state=0;
int invalid=0;
char input_string[max];
printf("Enter a string:");
scanf("%s",input_string);
int l=strlen(input_string);
for(i=0;i<l;i++)
{
if(input_string[i]=='a')
next_state=trans_table[present_state][0];
else if(input_string[i]=='b')
next_state=trans_table[present_state][1];
else
invalid=l;
present_state=next_state;
}
if(invalid==l) {
printf("Invalid input"); }
else if(present_state==final_state)
printf("Accept\n");
else
printf("Don't Accept\n");
```

[Type here]

```
Enter a string:abaaab  
Accept
```

```
Process returned 0 (0x0)   execution time : 7.513 s  
Press any key to continue.
```

```
}_
```

```
Enter a string:abbbbaaba  
Don't Accept
```

```
Process returned 0 (0x0)   execution time : 9.710 s  
Press any key to continue.
```