CDL WEEK -1

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**CSE C**

**CODE:**

#include <stdio.h>

int main(void)

{

char s[1000];

scanf("%s",s);

int state = 1;

for(int i=0; s[i]!='\0'; i++)

{

switch(s[i])

{

case 'a':

if(state==1)

state = 2;

else if(state==2)

state=3;

else if(state==4)

state =2 ;

else if(state ==5)

state = 2;

break;

case 'b' :

if(state==1)

state = 4;

else if(state == 4)

state = 5;

else if(state == 2)

state = 4;

else if(state ==3)

state = 4;

break;

default:

printf("Invalid Token");

exit(0);

}

}

if(state==3 || state ==5)

printf("accepted ");

else

printf("not accepted");

printf("\n");

return 0;

}

|  |  |
| --- | --- |
| **Test Cases** | **Output** |
| abaa | accepted |
| abaaba | Not accepted |
| aabb | accepted |
| abbab | Not accepted |