#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<1;i++)

{

if(input\_string[i]=='a')

next\_state=trans\_table[present\_state][0]

elseif(input\_string[i]=='b')

next\_state=trans\_table[present\_state][1]

else

invalid=1;

present\_state=next\_state;

}

if(invalid==1)

{

printf("invalid input");

}

elseif(present\_state==final\_state);

printf("accept")

else

printf("dont accept");

}

