217156

Neil Alexander L. Villahermosa

BSCPE 4

C. L = {W Є {a,b}\* | w contains at least 5 occurrences of b}

a,b

a

a

a

a

a

b

b

q5

b

b

b

q4

q3

q1

q2

q0

## L = ({q0, q1, q2, q3, q4, q5}, {a, b}, δ, q0, {q5})

TRANSITION TABLE

|  |  |  |
| --- | --- | --- |
| δ | a | b |
| Q0 | Q0 | Q1 |
| Q1 | Q1 | Q2 |
| Q2 | Q2 | Q3 |
| Q3 | Q3 | Q4 |
| Q4 | Q4 | Q5 |
| Q5 | Q5 | Q5 |

#include <stdio.h>

#include <stdlib.h>

#include <string.h>

int main() {

char str[100];

int i=0, count=0,a,b;

printf("enter the string: ");

gets(str);

count=0;

b=strlen(str);

for(a=0; a<=b; a++)

{

if(str[a]=='a'||str[a]=='b')

{

if(str[a]=='b')

{

count++;

}

}

}

if(count>=5)

{

printf("accepted\n");

}

else

{

printf("not accepted");

}

return 0;

}