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BSCpE-4

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D. L= {w {a, b}\*| every a in w is immediately followed by bbb}

* State Diagram

a

b

a b b b

q0 q1 q2 q3 q4 b

a a a

q5

a, b

* Table

|  |  |  |
| --- | --- | --- |
|  | a | b |
| q0 | q1 | q0 |
| q1 | q5 | q2 |
| q2 | q5 | q3 |
| q3 | q5 | q4 |
| q4 | q1 | q4 |
| q5 | q5 | q5 |

Q= q0, q1, q2, q3, q4, q5

∑= a, b

Initial State= q0

Final State= q4

#include <cstring>

#include<iostream>

using namespace std;

int main(int argc, char\* argv) {

int a,b,c;

char str[100];

cout<<"Input:";

cin>>str;

a=0;

b=0;

c=0;

cout<<"Output:";

while(str[a]!='\0'){

if (str[a]=='a'&&str[a+1]=='b'&&str[a+2]=='b'&&str[a+3]=='b')

{

c++;

}

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

{

b++;

}

a++;

}

if(c==b)

{

cout<<"Accepted";

}

else

{

cout<<"Not Accepted";

}

cout<<endl;

system ("PAUSE");

return 0;

}