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BSCpE-4

346231

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

|  |  |  |
| --- | --- | --- |
|  | A | B |
| 0 | 1 | 0 |
| 1 | 5 | 2 |
| 2 | 5 | 3 |
| 3 | 5 | 4 |
| 4 | 1 | 4 |
| 5 | 5 | 5 |

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

Initial State = q0

Final State = q4

**a, b**

**b**

**a**

**a**

**a**

**a**

**a**

**b**

**b**

**b**

**b**

**Q5**

**Q4**

**Q3**

**Q2**

**Q1**

**Q0**

#include <iostream>

using namespace std;

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

int x=0, y=0, z=0;

int table[6][2]={{1,0},{5,2},{5,3},{5,4},{1,4},{5,5}};

char str[100];

cout<<"Input:";

cin>>str;

cout<<"Output:";

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

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

{

z++;

}

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

{

y++;

}

x++;

}

if(z==y)

{

cout<<"Accepted";

}

else

{

cout<<"Not Accepted";

}

cout<<endl;

system ("PAUSE");

return 0;

}