



Clase:

Teoría de la Computación

Tarea:

Prueba DFA

Catedrático:

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Alumno:

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Fecha:

San Pedro Sula, 31/08/2020

```

1  {
2      "alfabeto":["a","b","$"],
3      "estados":["0","1","2","3","4","5","6","7"],
4      "e_inicial":"0",
5      "e_final":["7"],
6      "transiciones":[
7          ["0","1","$"],
8          ["0","4","$"],
9          ["1","2","a"],
10         ["2","2","a"],
11         ["2","2","b"],
12         ["2","3","a"],
13         ["3","7","$"],
14         ["4","5","b"],
15         ["5","5","a"],
16         ["5","5","b"],
17         ["5","6","b"],
18         ["6","7","$"]
19     ]
20 }

```

Que archivo desea abrir: e-nfa.json

```

e-nfa.dot :
alfabeto ['a', 'b', '$']
estados: ['0', '1', '2', '3', '4', '5', '6', '7']
inicial: 0
finales: ['7']
transiciones: [['0', '1', '$'], ['0', '4', '$'], ['1', '2', 'a'], ['2', '2', 'a'], ['2', '2', 'b'], ['2', '3', 'a'], ['3', '7', '$'], ['4', '5', 'b'], ['5', '5', 'a'], ['5', '5', 'b'], ['5', '6', 'b'], ['6', '7', '$']]

```

```

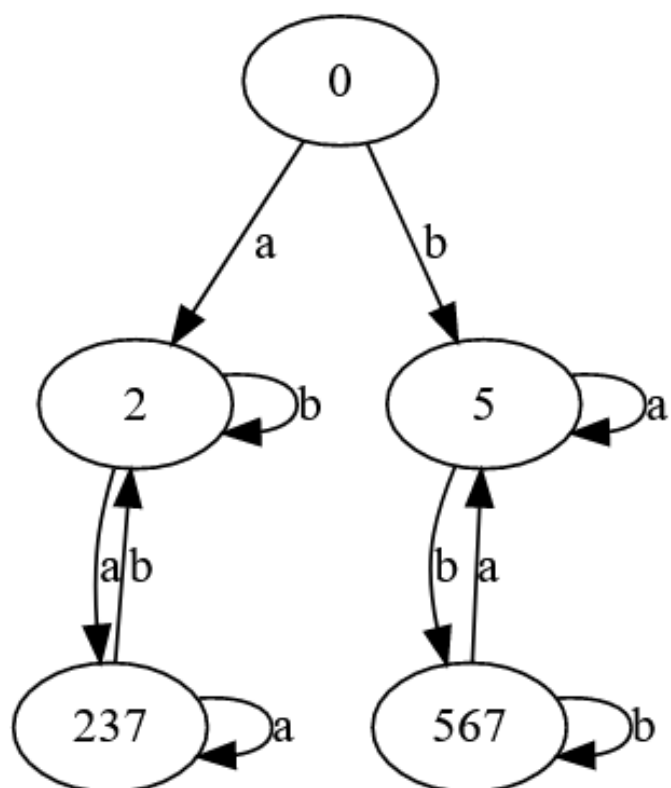
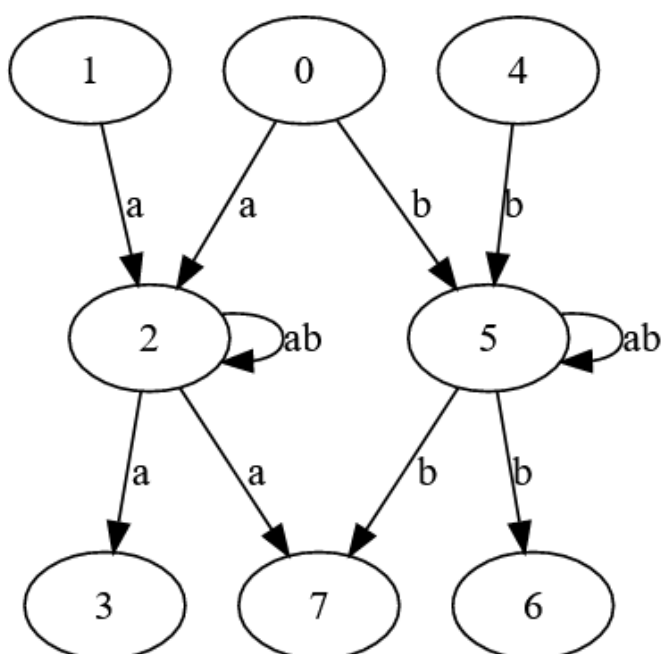
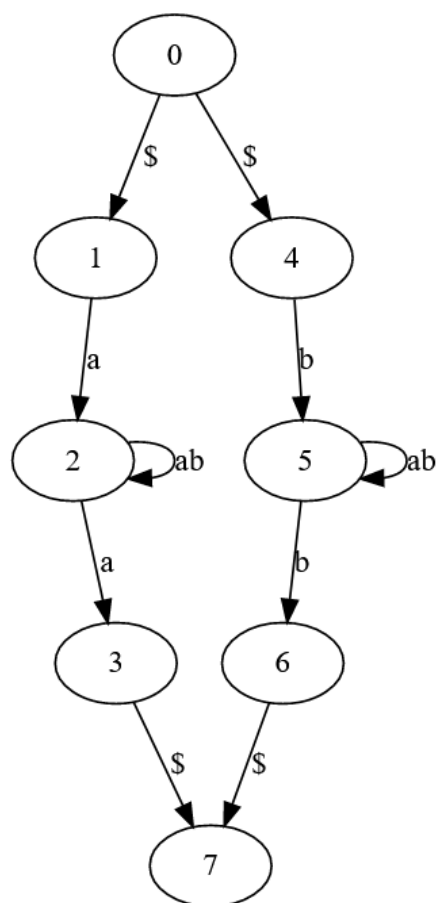
nfa.dot :
alfabeto ['a', 'b']
estados: ['0', '1', '2', '3', '4', '5', '6', '7']
inicial: 0
finales: ['7']
transiciones: [['1', '2', 'a'], ['2', '2', 'a'], ['2', '2', 'b'], ['2', '3', 'a'], ['4', '5', 'b'], ['5', '5', 'a'], ['5', '5', 'b'], ['5', '6', 'b'], ['0', '2', 'a'], ['2', '7', 'a'], ['0', '5', 'b'], ['5', '7', 'b']]

```

```

dfa.dot :
alfabeto ['a', 'b']
estados: ['0', '2', '5', '237', '567']
inicial: 0
finales: ['237', '567']
transiciones: [['0', '2', 'a'], ['0', '5', 'b'], ['2', '237', 'a'], ['2', '2', 'b'], ['5', '5', 'a'], ['5', '567', 'b'], ['237', '237', 'a'], ['237', '2', 'b'], ['567', '5', 'a'], ['567', '567', 'b']]

```



Ingrese cadena a probar: aaa
Pertenece a L(M)

Ingrese cadena a probar: baaaabbbb
Pertenece a L(M)

Ingrese cadena a probar: ababb
No pertenece a L(M)

Ingrese cadena a probar: aaaaaaaaaabbbbbbbbbbbbbb
No pertenece a L(M)

Ingrese cadena a probar: ababbababbbba
Pertenece a L(M)