Carné: 201700893

Ejercicio 1: Conjunto de cadenas que empiece con la letra b y termine con las letras a c

PROPIEDADES

 $S = \{1,2,3,4,5\}$

 $\Sigma = \{a, b, c\}$

f = Tabla de Transiciones

 $S_o = 1$

 $F = \{4\}$

DIAGRAMA

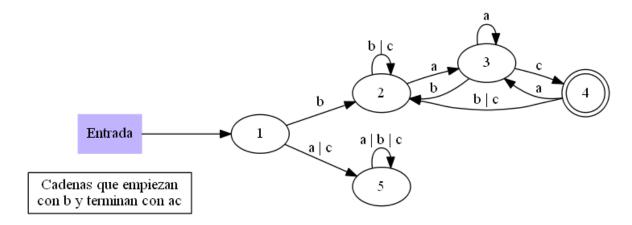


TABLA DE TRANSICIONES

	а	b	С	FDC
1	5	2	5	Error
2	3	2	2	Error
3	3	2	4	Error
4	3	2	2	Aceptación
5	5	5	5	Error

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CODIGO

```
digraph G{
        "Cadenas que empiezan\ncon b y terminan con ac" [shape = box];
        Entrada -> 1;
        1 -> 2 [label="b"];
        1 -> 5 [label="a | c"];
        2 -> 3 [label="a"];
        2 -> 2 [label="b | c"];
        3 -> 3 [label="a"];
        3 -> 2 [label="b"];
        3 -> 4 [label="c"];
        4 -> 3 [label="a"];
        4 -> 2 [label="b | c"];
        5 -> 5 [label="a | b | c"];
        4 [shape = doublecircle];
        Entrada [shape = box,style=filled,color=".7 .3 1.0"];
        rankdir=LR;
}
```

Ejercicio 2: Conjunto de cadenas que tenga por lo menos dos letras a juntas y terminen con

las letras b c

PROPIEDADES

 $S = \{1,2,3,4,5,6,7\}$

 $\Sigma = \{a, b, c\}$

f = Tabla de Transiciones

 $S_o = 1$

 $F = \{5\}$

DIAGRAMA

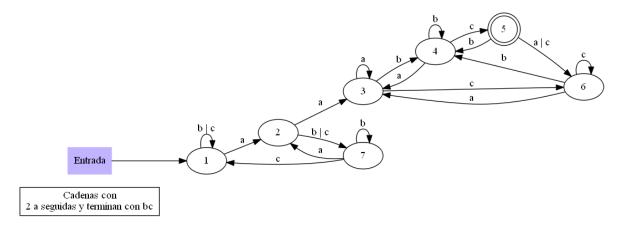


TABLA DE TRANSICIONES

	а	b	С	FDC
1	2	1	1	Error
2	3	7	7	Error
3	3	4	6	Error
4	3	4	5	Error
5	6	4	6	Aceptación
6	3	4	6	Error
7	2	7	1	Error

CODIGO

}

```
digraph G{
        "Cadenas con\n2 a seguidas y terminan con bc" [shape = box];
        Entrada -> 1;
        1 -> 2 [label="a"];
        1 -> 1 [label="b | c"];
        2 -> 3 [label="a"];
        2 -> 7 [label="b | c"];
        3 -> 3 [label="a"];
        3 -> 4 [label="b"];
        3 -> 6 [label="c"];
        4 -> 3 [label="a"];
        4 -> 4 [label="b"];
        4 -> 5 [label="c"];
        5 -> 6 [label="a | c"];
        5 -> 4 [label="b"];
        6 -> 3 [label="a"];
        6 -> 4 [label="b"];
        6 -> 6 [label="c"];
        7 -> 2 [label="a"];
        7 -> 7 [label="b"];
        7 -> 1 [label="c"];
        5 [shape = doublecircle];
        Entrada [shape = box,style=filled,color=".7 .3 1.0"];
        rankdir=LR;
```

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Ejercicio 3: Conjunto de cadenas que terminen con las letras a b c

PROPIEDADES

 $S = \{1,2,3,4\}$

 $\Sigma = \{a, b, c\}$

f = Tabla de Transiciones

 $S_o = 1$

 $F = \{4\}$

DIAGRAMA

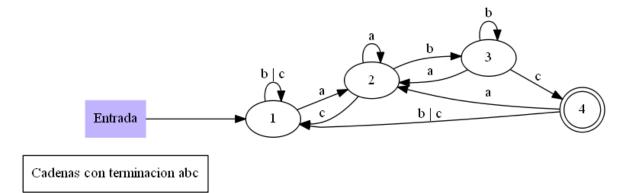


TABLA DE TRANSICIONES

	а	b	С	FDC
1	2	1	1	Error
2	2	3	1	Error
3	2	3	4	Error
4	2	1	1	Aceptación

CODIGO

}

```
digraph G{
        "Cadenas con terminacion abc" [shape = box];
        Entrada -> 1;
        1 -> 2 [label="a"];
        1 -> 1 [label="b | c"];
        2 -> 2 [label="a"];
        2 -> 3 [label="b"];
        2 -> 1 [label="c"];
        3 -> 2 [label="a"];
        3 -> 3 [label="b"];
        3 -> 4 [label="c"];
        4 -> 2 [label="a"];
        4 -> 1 [label="b | c"];
        4 [shape = doublecircle];
        Entrada [shape = box,style=filled,color=".7 .3 1.0"];
        rankdir=LR;
```