

UNIVERSIDAD TECNOLÓGICA NACIONAL FACULTAD REGIONAL VILLA MARÍA INGENIERÍA EN SISTEMAS DE LA INFORMACIÓN SINTAXIS Y SEMÁNTICA DE LOS LENGUAJES TRABAJO PRÁCTICO Nº4

Docentes:

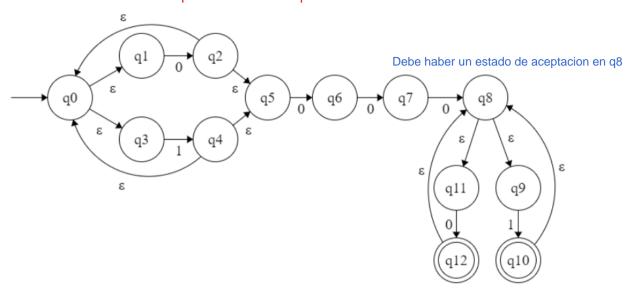
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- J.T.P Doc. Palombarini, Jorge

Integrantes del grupo:

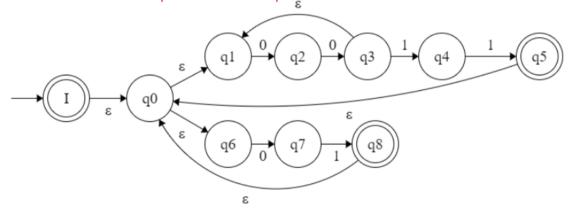
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Fecha de entrega: 28/10/2020

1. a) Falta un épsilon directo a q5



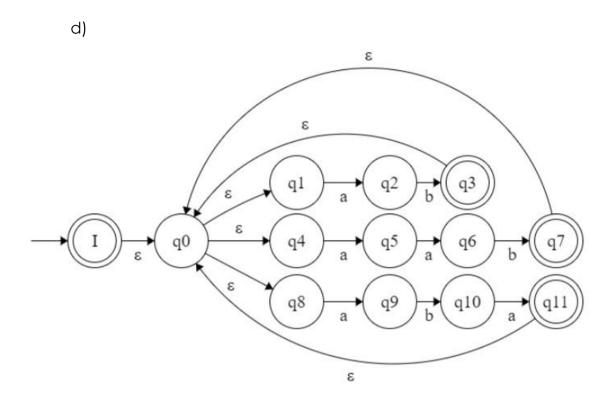
b) Falta épsion directo a q3 $_{\epsilon}$

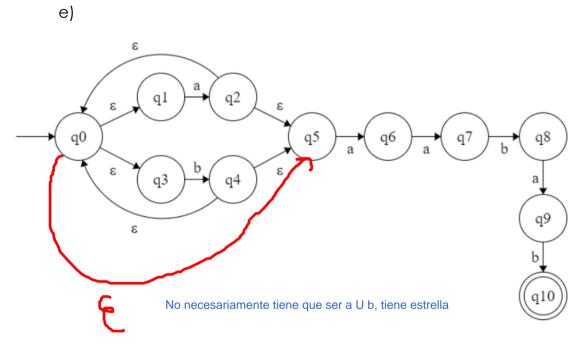


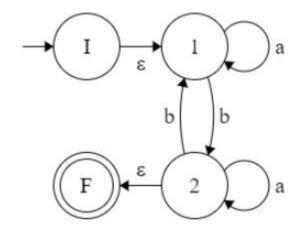
c)

Falta la clusura para que reconozca epsilon.

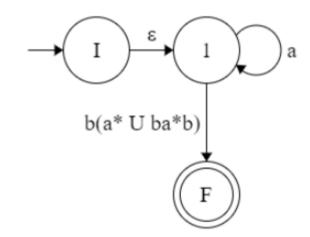




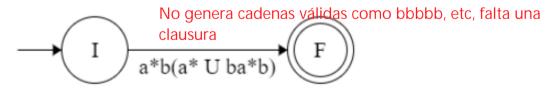




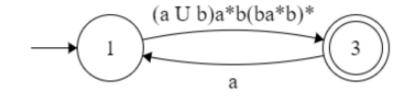
Paso 1



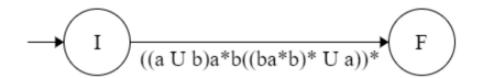
Paso 2



Final

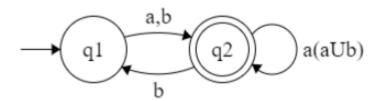


Paso 1

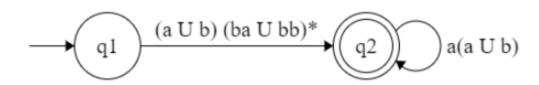


Final

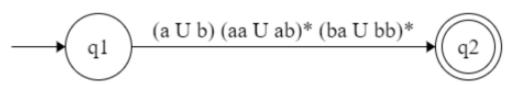
c)



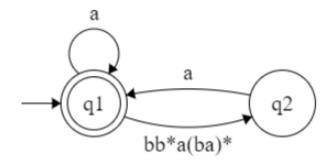
Paso 1



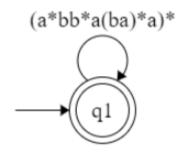
Paso 2



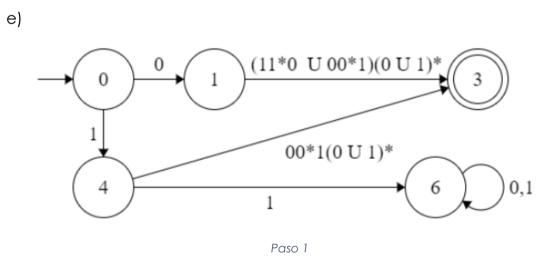
No permite intercalar cadenas generadas como aaabbaa Final



Paso 1

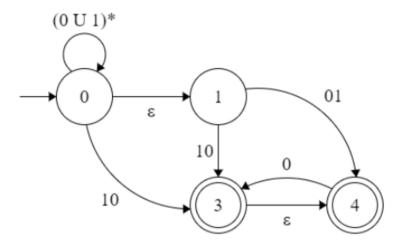


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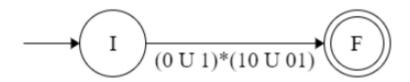


0 (0(11*0 U 00*1) U 100*1)(0 U 1)* 3

Final

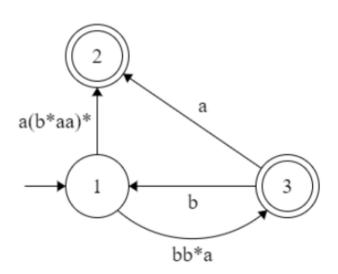


Paso 1

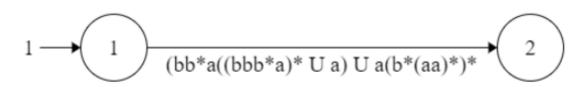


Final

h)

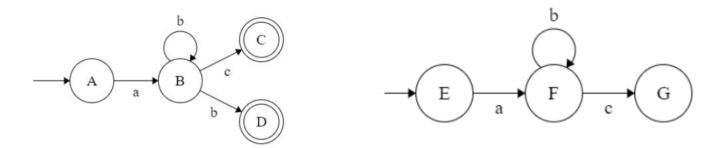


Paso 1



Final

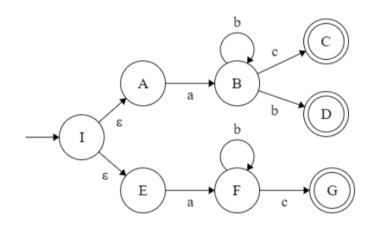
3.



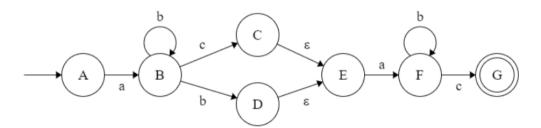
Autómata B

Autómata A

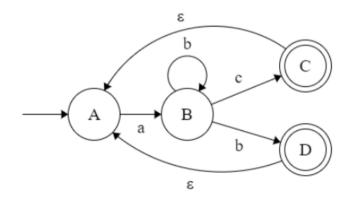
A U B



A.B



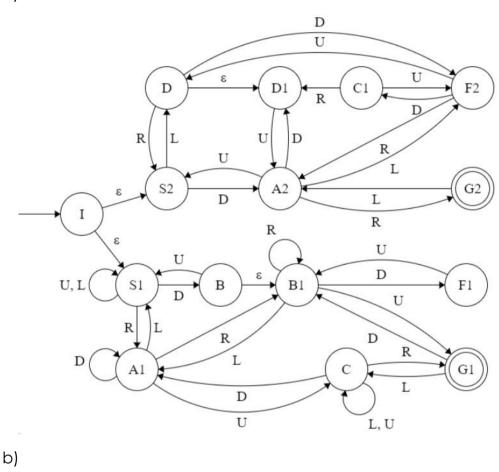
A*



4. A

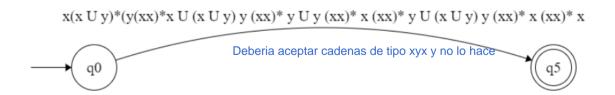
Para mayor facilidad a la hora de realizar el autómata, se utilizan las letras: U (arriba), D (abajo), L (izquierda, R (derecha) para reemplazar el alfabeto dado.

a)



El autómata planteado reconoce el lenguaje de todas las cadenas que terminan en el estado G1 o G2.

6. a



Lenguaje = (w/w empieza con x y termina con yx, xy o yy)