*1 - Considere as seguintes linguagens:*

*L1 = {w ∈ {a, b, c}\* | w começa com ac e termina com aa}.*

*L2 = {w ∈ { a, b, c}\* | |w| > 5}.*

*2 - Escreva as linguagens abaixo:*

*L5 = L1 ∪ L2 = {w ∈ {a, b, c}\* | w começa com ac e termina com aa ou |w| > 5}.*

*L6 = L1 ° L2 = {w.v ∈ {a, b, c}\* | |w| > 5 e v começa com ac e termina com aa}.*

*L7 = L1\***= {w1.w2.w3...wn ∈ {a, b, c}\* | cada w começa com ac e termina com aa}.*

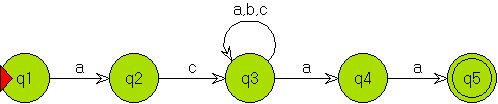
*L8 = L2’ = {w ∈ {a, b, c}\* | |w| < 5}.*

*L9 = L1 ∩ L2 = {w ∈ {a, b, c}\* | |w| > 5 e começa com ac e termina com aa}.*

*L10 = L1 - L2 = {w ∈ {a, b, c}\* | w começa com ac e termina com aa e |w| <= 5*

*3 - Desenhe o autômato NFA para: L1, L2, L5, L6 e L7;*

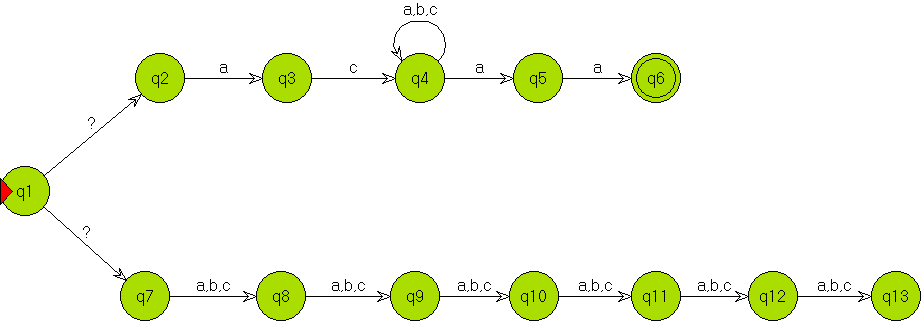
*L1:*

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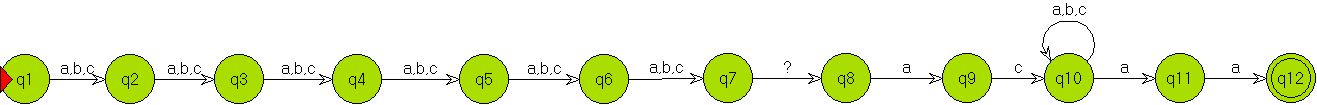
*L2:*

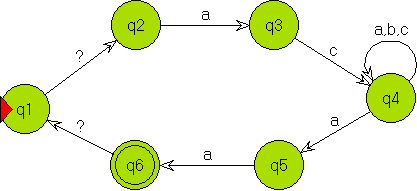
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*L5:*

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*L6:*

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*L7:*