

Universidad del Valle de Guatemala

UVG

UNIVERSIDAD DEL VALLE DE GUATEMALA

Proyecto 3
Logica Matematica
Grupo Random

Integrantes:

Andres Emilio Quinto, 18288
Alejandro Pallais Garcia, 20093
Rudik Roberto Rompich, 19857
Andrés de la Roca, 20332
Jun Woo Lee, 20358

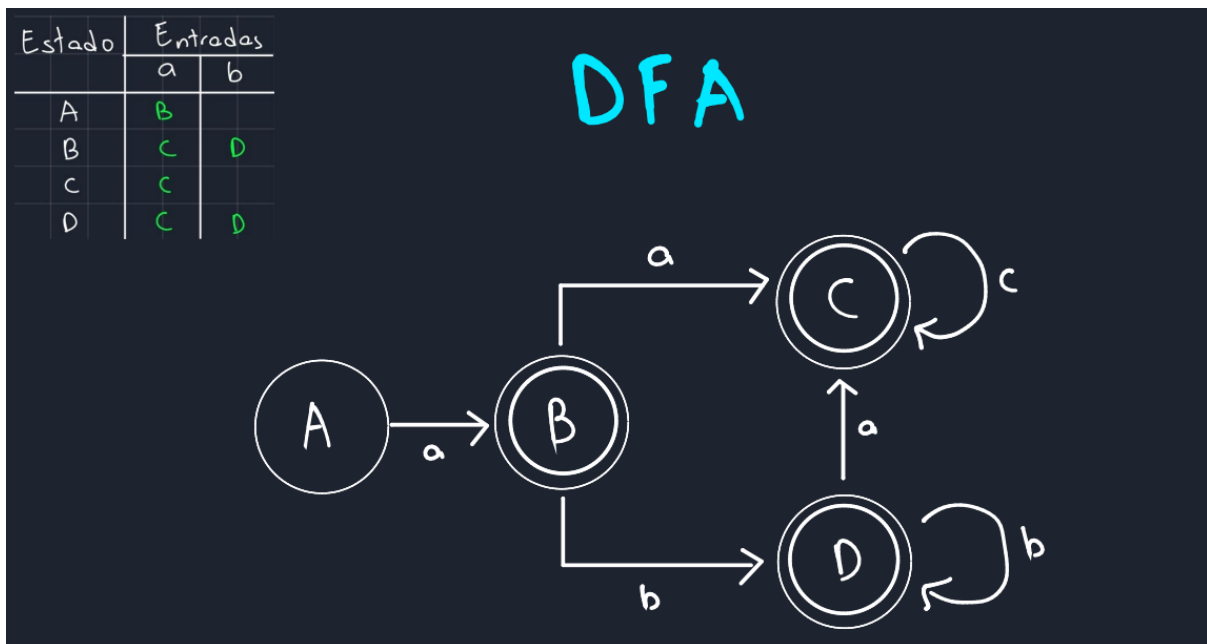
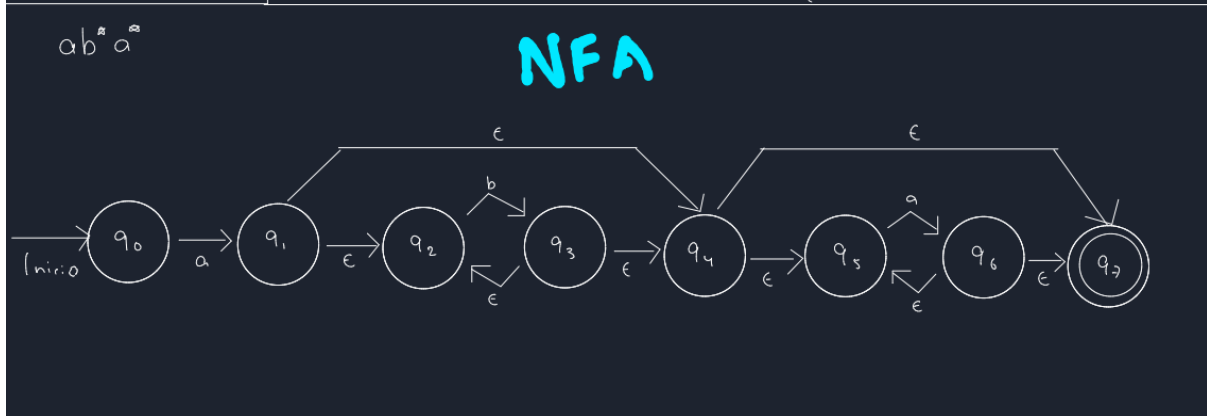
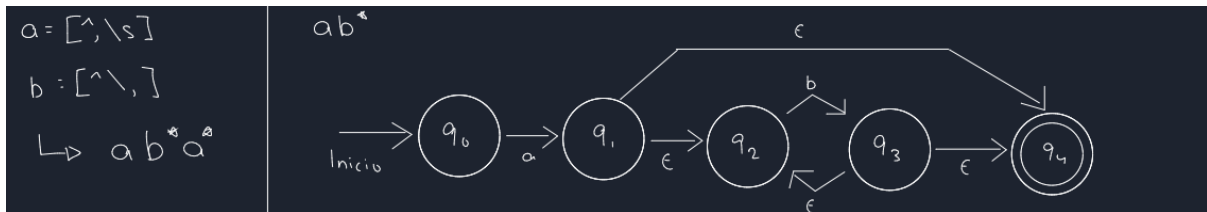
Guatemala, Guatemala, 2022

Expresiones regulares

- Expresión para validar los encabezados

$[\wedge, \backslash s][\wedge, \backslash,]^*[\wedge, \backslash s]^*$

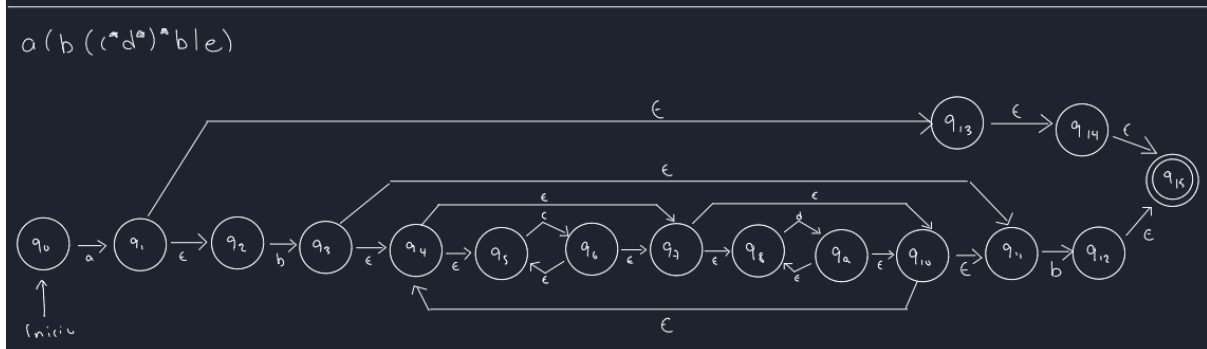
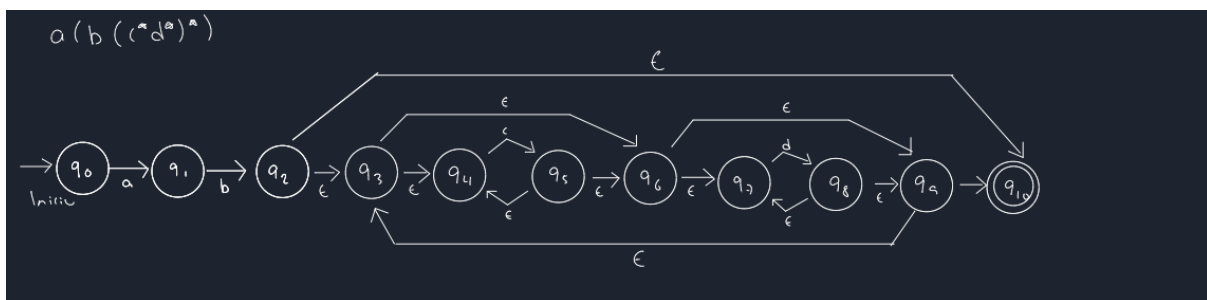
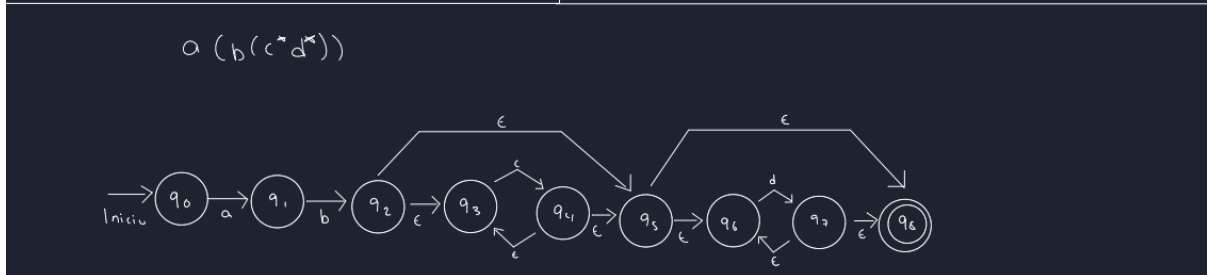
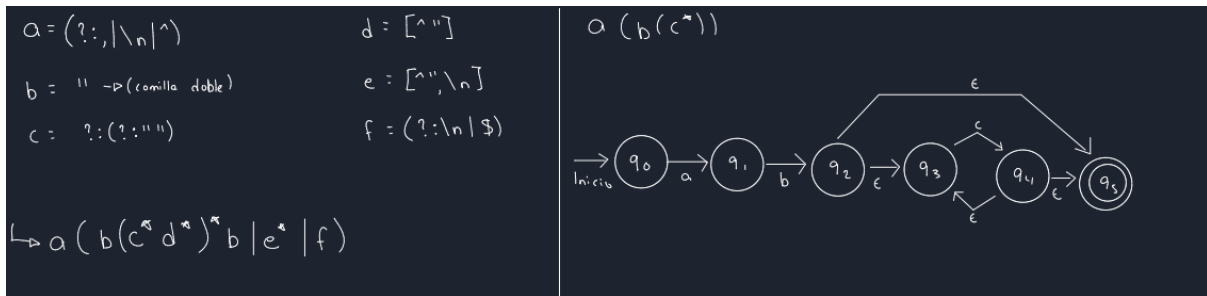
Diagrama:



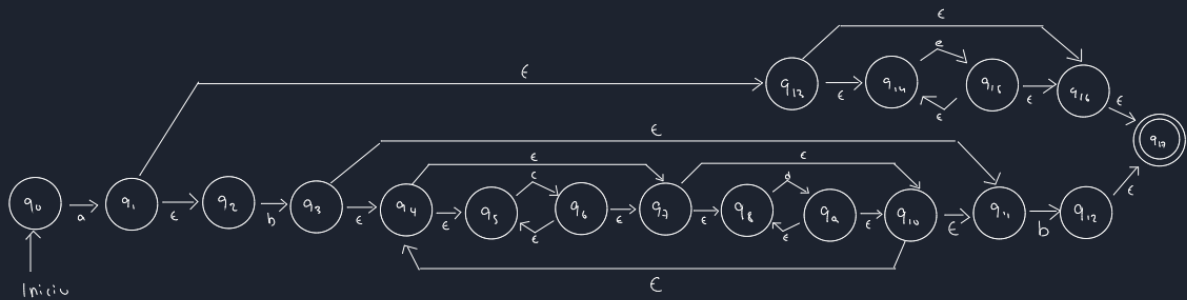
- Expresión para validar el contenido

$(?:,|\backslash n|^) ("(?:?:?:"^)*[\wedge"]^)*" | [\wedge",\backslash n]^* | (?:\backslash n|$)$

Diagrama:

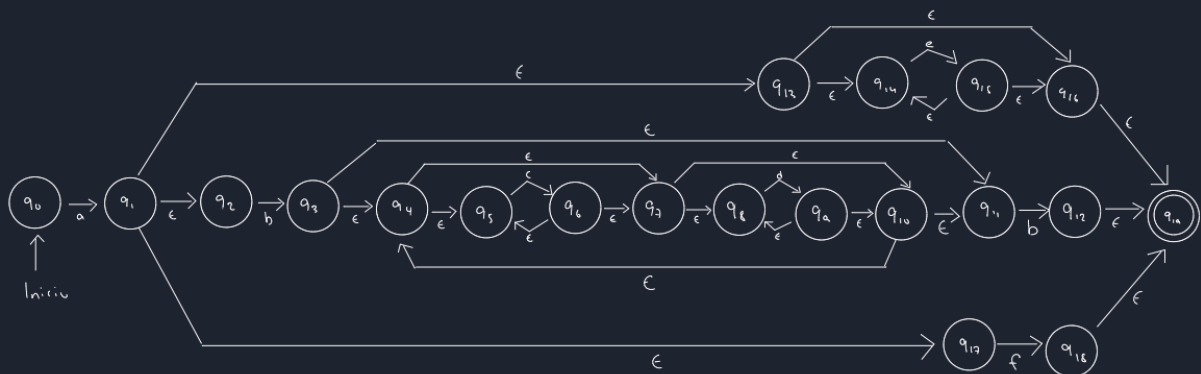


$a(b(c^*d^*)^*ble^*)$



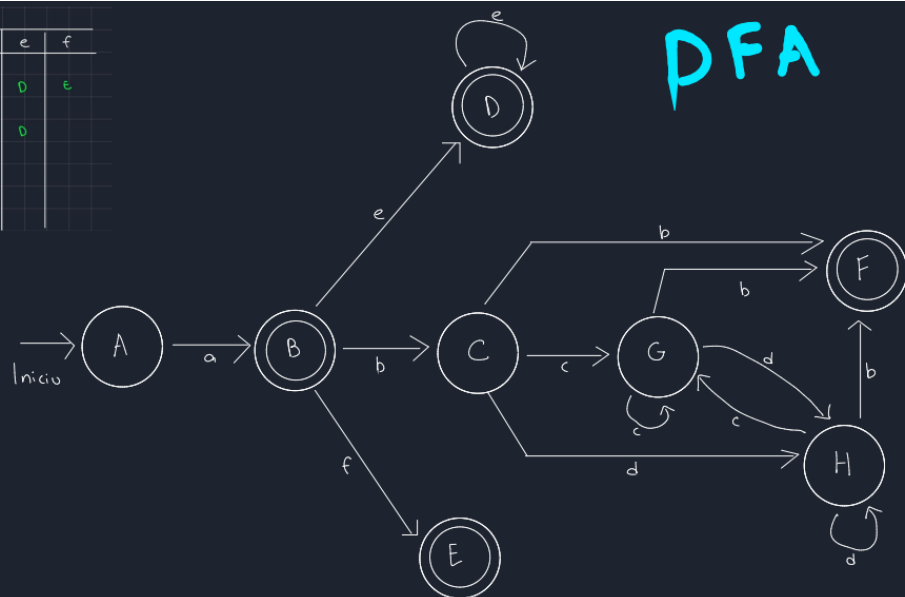
NFA

$a(b(c^*d^*)^*ble^*|f)$



Estado	Entradas					
	a	b	c	d	e	f
A	B					
B		C			D	E
C		F	G	H		
D					D	
E						
F						
G		F	G	H		
H		F	G	H		

DFA



Resultados

```
Encabezado validado correctamente
Contenido validado correctamente

  Identifier Edition Statement      Place of Publication Date of Publication ... Engraver Issuance type      Flickr URL      Shelfmarks
0  000000206                                London      1879 [1878] ...                               monographic http://www.flickr.com/photos/britishlibrary/ta... British Library HNMITS 12641.b.30.
1  000000216      London; Virtue & Vorston      1868 ...                               monographic http://www.flickr.com/photos/britishlibrary/ta... British Library HNMITS 12626.cc.2.
2  000000218                                London      1869 ...                               monographic http://www.flickr.com/photos/britishlibrary/ta... British Library HNMITS 12625.dd.1.
3  000000472                                London      1851 ...                               monographic http://www.flickr.com/photos/britishlibrary/ta... British Library HNMITS 10369.bbb.15.
4  000000489      A new edition                                London      1857 ...                               monographic http://www.flickr.com/photos/britishlibrary/ta... British Library HNMITS 9007.d.28.
...  ...                                ...      ...      ...      ...      ...      ...      ...
8282 004158088                                London      1838 ...                               monographic http://www.flickr.com/photos/britishlibrary/ta... British Library HNMITS|British Library HNMITS 10...
8283 004158128                                Derby      1831 ...                               monographic http://www.flickr.com/photos/britishlibrary/ta... British Library HNMITS|British Library HNMITS 10...
8284 004159563                                London      [1806]-22 ... monographic http://www.flickr.com/photos/britishlibrary/ta... British Library HNMITS|British Library HNMITS 19...
8285 004159587      Newcastle upon Tyne      1834 ...                               monographic http://www.flickr.com/photos/britishlibrary/ta... British Library HNMITS|British Library HNMITS 10...
8286 004160339                                London      1834-43 ... continuing http://www.flickr.com/photos/britishlibrary/ta... British Library HNMITS|British Library HNMITS 79...

[8287 rows x 15 columns]
C:\Users\Andre\OneDrive\Universidad\Tercer año\Segundo Semestre\Logica matematica\Proyectos\Proyecto 3\Proyecto3>
```

Los resultados completos del dataframe fueron escritos dentro de los archivos (que están en la entrega) output.csv y output.txt.