CS 419 Compiler Projects Form

1) Instructions to be Followed (for the Hard Copy):

- I. Fill page **NO 4** with the required Fields:
 - **I.** Project Idea: The **Idea** will be assigned to you .
 - **II.** Team Members NO#: Number of team members 7
 - III. Table:
 - ID: Your FCIH ID.
 - Name: Your Full Name as registered on College's Database.
 - Level & Department: Your (Current) level and department.
 - Section(Day-from-to): Your Section Day and time slot.
 - Role: Your role in project (**Team leader** OR **Member**).
 - Fill Page **NO 5 & 6** with your (**Regular Expressions**, **Finite** automata, **Parse trees** and **abstract syntax tree**) respectively.

2) Minus Policies:

- I. **Project Policy:** affects all projects members including team leader.
- II. Member Policy: affects a member of project's members.

3) General Notes:

- I. Total grade of Project is 15
- II. Deadline to register yourself and your team on online form Tuesday 05/04/2022 at 11:59 PM after that -2 Project Policy will be applied.
- III. Once you Registered, **NO modifications** will be done.
- IV. Allowed only on registration for team in form, duplication will got -2Project Policy.
- V. Each group will be assigned an Idea, ID and time slot for discussion.
- VI. Each team member and team leader in a team **must work in project's coding phase** (including implementation of **finite automata and parse trees**).

4) Discussion Notes:

- I. Copied Code will be got ZERO Without Discussion.
- II. By references to Section 3 (General notes) Point V, -5 Member policy will be applied to each team member (including team leader) who does not participate in project coding phase as well as the team leader who does not report this case.
- III. Each team member must have a complete knowledge about the whole project
- IV. **Evaluation** will be **Individual Evaluation** not project Evaluation.
- V. **-2 Project Policy** will be applied in case of being late for assigned discussion time slot
- VI. NO discussion will be repeated under any circumstances.
- VII. At Discussion day, in case of offline discussions, each team must have **Hard Copy form** including (**Finite automata and parse trees of team's project**).
- VIII. Discussion Day will be sent later.

5) Notes about Implementation:

- I. .Net or PHP are only allowed.
- II. The project must be a Web (use latest technologies).
- III. Your code must be uploaded to github before discussion.
- IV. 5 Project policy will be applied in case of using Built-in Method within implementation of the scanner or parser, you must create your own methods to match for ex (your regular Expressions).
 - V. Each Project must contain a full functional editor (comment, uncomment, put red line under wrong words, auto complete, navigation to function or class, line NO).

- VI. Each Project must contain **two buttons**, one button called "Scan" to run scanner and other called "Parse" to run parser —parser must take output of scanner to do it's task.
- VII. Each project must contain a button named "Browse" that allows us to choose a file from a disk that allows us to parse or scan this file Without Showing what is inside the file and shows the output.
- VIII. 3 Project policy will be applied if the content of the file that is mentioned in point V is opened or viewed.

5) Notes about Discussion Testing:

- There will be two types of Testing:
 - I. White Box Testing: This will be from Editor.
 - II. Black Box Testing: This will be from "Browse" Button

Thanks,

CS 419 Compiler Project Form

Project Idea: #2

Team Members NO#:7

ID	Name	Level& Department	Section(Day- from-to)	Role (Lead/Member)	Grade
0547	غيداء الطاهر احمد محمد	3	4-6- Wednesday	Lead	
20190 0573	کاترین حبیب جورج ناداب	3	4-6 Wednesday	Member	
0568	فريدة أحمد توكو			Member	
0554	فاروق ابراهيم فاروق عبداللطيف		4-6 Wednesday	Member	
0534	عمر نبیل صابر ندا		4-6 Wednesday	Member	
0386	طارق ايمن الدسوقي طلبة		Thursday 8-10	Member	
20170 433	محمد حسين عبدالعال قابيل		-	Member	

Regular Expression, Finite automata and Conversion from RegX to NFA, NFA to DFA

RE: Category -> Category

NFA:

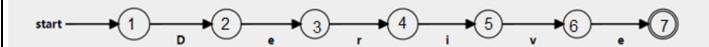




RE: Derive -> Derive

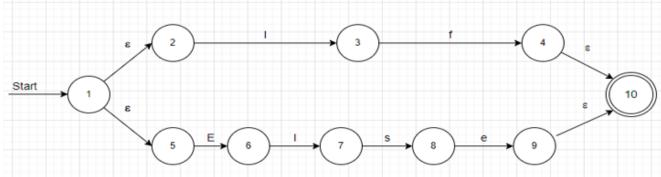
NFA:

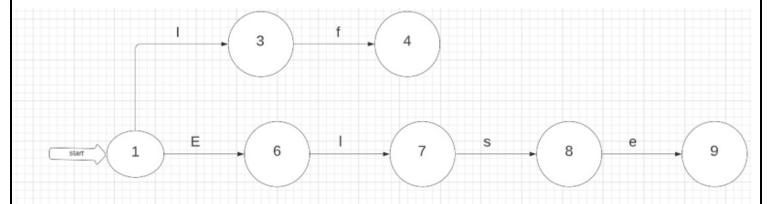




RE : Condtion -> If | Else

NFA:





RE: Ilap -> Ilap

NFA:





RE : <mark>Silap -></mark> Silap

NFA:





RE: Clop -> Clop

NFA:





RE : Series -> Series

NFA:





RE: | lapf -> llapf

NFA:



DFA:



RE: Silapf - > Silapf

NFA:

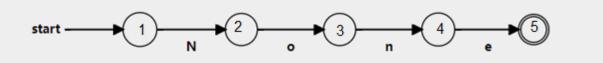




RE : None -> None

NFA:





RE : <mark>Logical -></mark> Logical

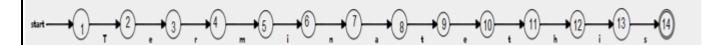
NFA:





RE: Terminatethis -> Terminatethis

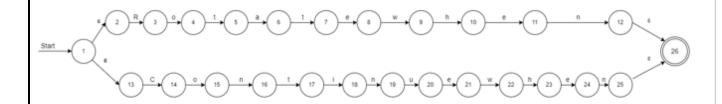
NFA:



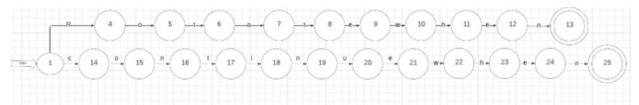


RE: Repeat -> Rotatewhen | Continuewhen

NFA:



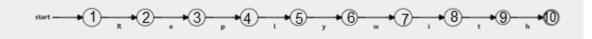
NFA:



RE : Replywith -> Replywith

NFA:





RE: Seop -> Seop

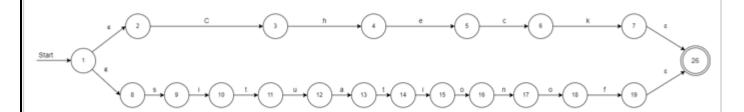
NFA:

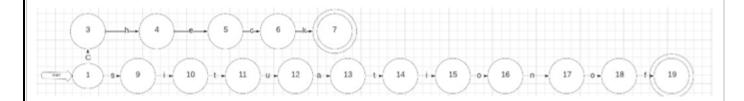




RE: Switch - > Check | situation of

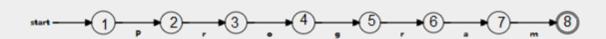
NFA:





RE: Program -> Program

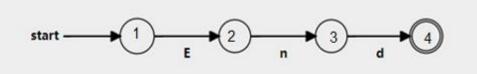
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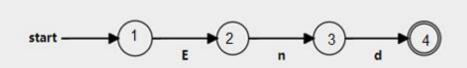




RE: End -> End

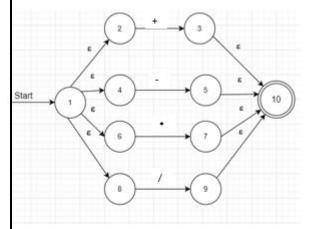
NFA:

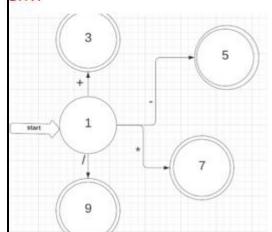




KE: Anunmeuc -> + | - | ` | /

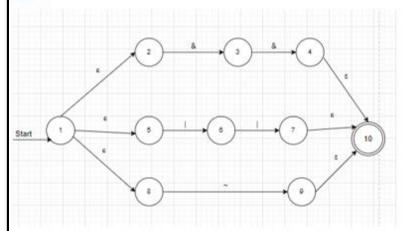
NFA:

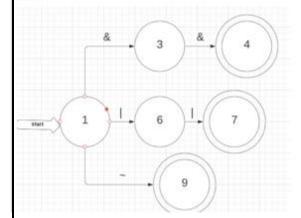


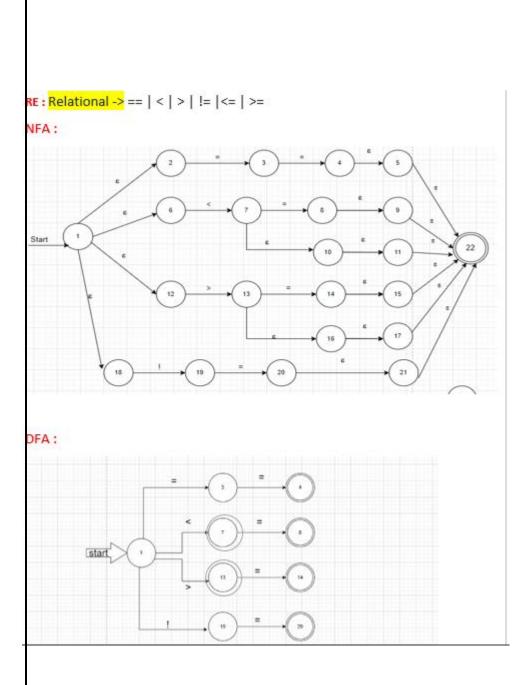


RE: Logic -> && | || | ~

NFA:







RE: Assignment -> =

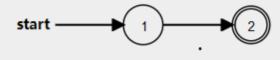
NFA:



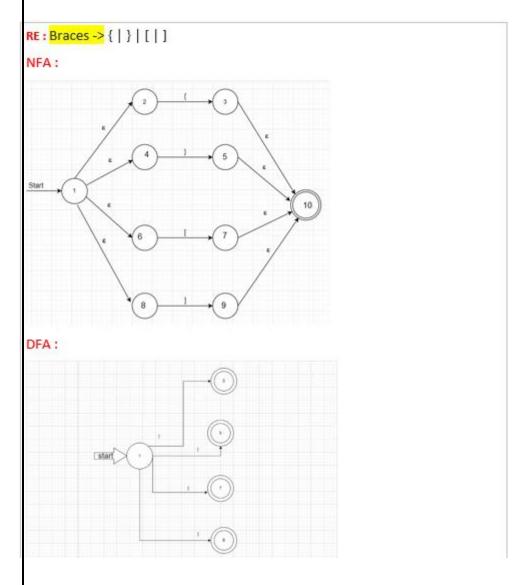


RE: Access -> .

NFA:

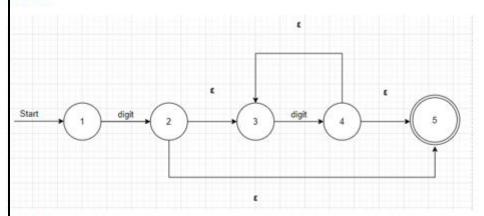


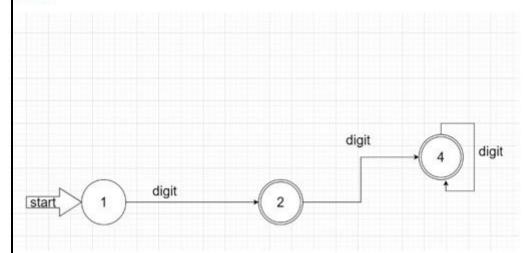




Digits -> digit digit*

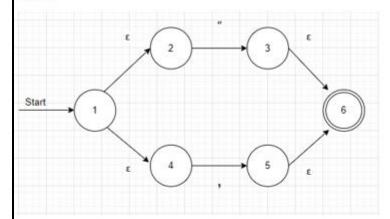
NFA:

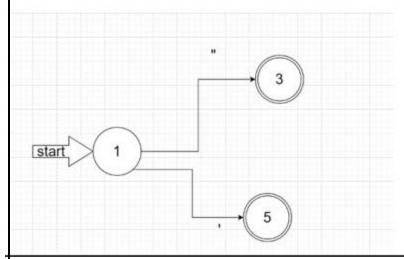




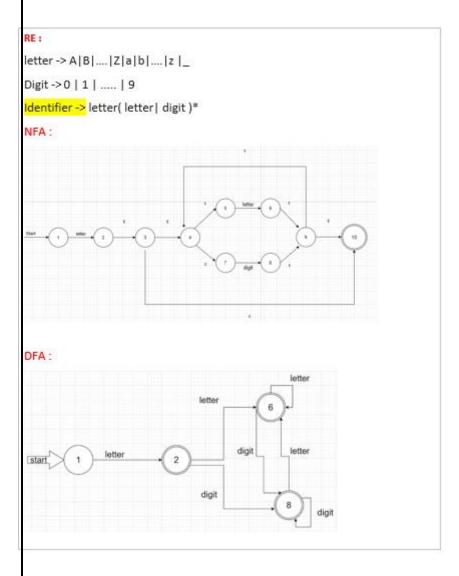
RE: Quotation -> " | '

NFA:





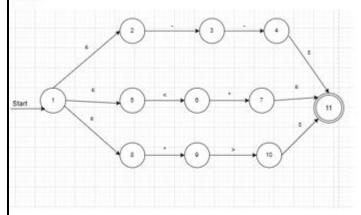
RE: Using -> Using NFA: DFA:

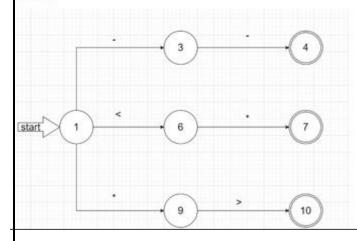


RE:

Comment -> -- | <* | *>

NFA:





	DFA:	
33 P a g		

