Due date: 2022-02-09, 23:59 IST.

1 point





NPTEL (https://swayam.gov.in/explorer?ncCode=NPTEL) » Compiler Design (course)

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## Thank you for taking the Week 2: Assignment 2.

(https://examform.nptel.ac.in/2022\_01/exam\_form/dashboard

## Course outline

How does an NPTEL online course work?

Week 0:

Week 1

Week 2

- Lecture 07 : Lexical Analysis (unit?unit=26&lesson=27)
- Lecture 08 : Lexical Analysis (Contd.) (unit? unit=26&lesson=28)
- Lecture 09 : Lexical Analysis (Contd.) (unit? unit=26&lesson=29)

## Week 2: Assignment 2

Your last recorded submission was on 2022-02-09, 14:53 IST

- When the lexical analyzer reads the source code, it scans the code
  - (A) Line-by-line
  - (B) Word-by-word
  - (C) Letter-by-letter
  - (D) Whole at a time
  - (A)
  - (B)
  - (C)
  - (D)

Ass X	Lecture 10 : Lexical Analysis ressment submitted. (Contd.) (unit? unit=26&lesson=30)
	<ul><li>Lecture 11: Lexical Analysis (Contd.) (unit? unit=26&amp;lesson=31)</li></ul>
	Lecture Materials (unit? unit=26&lesson=32)
	Quiz: Week 2 : Assignment 2 (assessment?name=140)
	<ul><li>Feedback Form (unit? unit=26&amp;lesson=33)</li></ul>
	Week 3
	DOWNLOAD VIDEOS
	Text Transcripts
	Books

<ul> <li>The regular expression for strings (over alphabet set {0,1}) in which a '0' is always follow by at least two 1's (that is "11") is</li> <li>(A) (1*(011)*)*</li> <li>(B) 1*(011)*</li> <li>(C) Not possible to create such a regular expression</li> <li>(D) None of the other options</li> </ul>	wed
<ul><li>(A)</li><li>(B)</li><li>(C)</li><li>(D)</li></ul>	
3) According to the following diagram which one of the following strings is not accepted by diagram?	y the
30 - 0 - 0°	
(A) 110 (B) 1111 (C) 110000 (D) 1100	
<ul><li>(A)</li><li>(B)</li><li>(C)</li><li>(D)</li></ul>	

1 point

1 point

The number of possible epsilon transitions from a state in an NFA is  (A) Many (B) At most one (C) One (D) Zero	1 point
(A)	
○ (B)	
○ (c) ○ (D)	
5) Between NFA and DFA which one is more powerful  (A) NFA  (B) DFA  (C) both are powerful  (D) Cannot be said definitely	1 point
○(A)	
○(B)	
(C)	
$\bigcirc$ (D)	
(A) Cannot represent any language     (B) Part of a language     (C) Constituent strings of a language     (D) None of the other options	1 point
○(A)	
○(B)	
(C)	
$\bigcirc$ (D)	

Assessment submitted.

Χ

7) Finite automata is an implementation of  (A) Part of a Regular expression  (B) Any grammar  (C) Regular expression  (D) None of the other options	1 poin
$\bigcirc$ (A)	
○(B)	
(c)	
$\bigcirc$ (D)	
8) Which is easier to implement, the NFA or the DFA?  (A) DFA  (B) NFA  (C) Equal effort needed  (D) Cannot be said definitely	1 poin
(A)	
○(B)	
○(c)	
$\bigcirc$ (D)	
9) The regular expression (0 1)*00 will accept all strings (A) Divisible by 2 (B) Divisible by 4 with minimum length 2 (C) Divisible by 2 with minimum length 2 (D) Divisible by 4	1 poin
$\bigcirc$ (A)	
(B)	
○(c)	
(D)	

Assessment submitted.

Χ

Assessment submitted. X	10) What exactly is a lexeme?  (A) Any sequence of characters  (B) Sequence of characters defining a token  (C) Same as a token  (D) Not related to any token	1 point
	○ (A)	
	○(c)	
	$\bigcirc$ (D)	
	Output of the tool lex is  (A) A C program  (B) An executable code  (C) A parser  (D)None of the other options	1 point
	(A)	
	○(B)	
	○( <b>c</b> )	
	○ <sub>(D)</sub>	
	You may submit any number of times before the due date. The final submission will be considered for grading.  Submit Answers	