X

Week 2 : Assignment 2

The due date for submitting this assignment has passed.

Due on 2025-02-05, 23:59 IST.

Assignment submitted on 2025-02-05, 23:15 IST

1) A regular expression represents *1 point*

a) Part of a language

b) Cannot represent any language

c) Constituent strings of a language

d) None of the other options

- a
- b
- c
- d

Yes, the answer is correct.
Score: 1

Accepted Answers:
c

2) *1 point*

When expression sum=3+2 is tokenized then what is the token category of 3

a) Identifier
b) Assignment operator
c) Integer literal
d) Addition operator

- a
- b
- c
- d

Yes, the answer is correct.
Score: 1

Accepted Answers:
c

3) ***1 point***

For the Fortran language statement "DO 5 I = 1.25" returns token IDENTIFIER for DO 5 I after looking upto

a) I
b) =
c) .
d) 5

- a
- b
- c
- d

Yes, the answer is correct.
Score: 1

Accepted Answers:
c

4) ***1 point***

Which of the following are Lexemes?

a) Identifiers
b) Constants
c) Keywords
d) All of the mentioned

- a
- b
- c
- d

Yes, the answer is correct.
Score: 1

Accepted Answers:
d

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5) *1 point*

A regular expression for accepting strings with exactly one 1 more than 0's is

a) 0*1
b) (0|1)*1(0|1)*
c) (0|1)*1(0|1)*|1(0|1)*
d) Not Possible

- a
- b
- c
- (selected) d

Yes, the answer is correct.
Score: 1

Accepted Answers:
d

6) *1 point*

Which one of the following languages over the alphabet {0,1} is described by the regular expression: (0+1)*0(0+1)*0(0+1)*

a) The set of all strings containing the substring 00.
b) The set of all strings containing at most two 0's.
c) The set of all strings containing at least two 0's.
d) The set of all strings that begin and end with either 0 or 1.

- a
- b
- (selected) c
- d

Yes, the answer is correct.
Score: 1

Accepted Answers:
c

7) *1 point*

Finite automata is an implementation of

a) Regular expression
b) Any grammar
c) Part of the regular expression
d) None of the other options

- (selected) a
- b
- c
- d

Yes, the answer is correct.

Score: 1

Accepted Answers:

a

8) ***1 point***

The automation which allows transformation to a new state without consuming any input symbols:

a) NFA
b) DFA
c) Pushdown automata
d) All of the mentioned

- a
- b
- c
- d

Yes, the answer is correct.
Score: 1

Accepted Answers:

a

9) ***1 point***

The _____ of a set of states, P, of an NFA is defined as the set of states reachable from any state in P following ε-transitions

a) ε-closure

b) ε-park

c) Q in the tuple

d) None of the mentioned

- a
- b
- c
- d

Yes, the answer is correct.
Score: 1

Accepted Answers:

a

10) Between NFA and DFA which one is powerful ***1 point***

a) NFA
b) DFA
c) Equally powerful
d) Cannot be said definitely

- a
- b

- c
- d

Yes, the answer is correct.
Score: 1

Accepted Answers:
c

11) Subset Construction method refers to **1 point**

a) Conversion of NFA to DFA

b) DFA minimization

c) Eliminating null references

d) ε-NFA to NFA

- a
- b
- c
- d

Yes, the answer is correct.
Score: 1

Accepted Answers:
a

12) **1 point**

Which of the following do we use to form an NFA from a regular expression

a) Subset construction method

b) Powerful set construction method

c) Thompson construction method

d) Scott construction method

- a
- b
- c
- d

Yes, the answer is correct.
Score: 1

Accepted Answers:
c

13) **1 point**

A certain compiler corrects errors like “fi” to “if” automatically. This is an example of recovery in

a) Panic mode
b) Delete character
c) Replace Character
d) Transpose character

- a
- b
- c
- d

Yes, the answer is correct.
Score: 1

Accepted Answers:
d