

<https://swayam.gov.in>https://swayam.gov.in/nc_details/NPTEL

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NPTEL (<https://swayam.gov.in/explorer?ncCode=NPTEL>) » Compiler Design (course)Course
outlineHow does an
NPTEL
online
course
work? ()

Week 0 : ()

Week 1 ()

Week 2 ()

Week 3 ()

Week 4 ()

Week 5 ()

Week 6 ()

Week 7 ()

Week 8 ()

Week 9 ()

☐ Lecture 42 :
Type
Checking(Contd.)
(unit?
unit=82&lesson=83)

Week 9 : Assignment 9

Your last recorded submission was on 2022-03-30, 07:06 Due date: 2022-03-30, 23:59 IST.

IST

1)

1 point

A desirable property of hash function for symbol table organization is

- (A) Depend on name of the symbol
- (B) Quickly computable
- (C) Avoid clustering for similar names
- (D) All of the other options

☐ (A)☐ (B)☐ (C)☒ (D)

2)

1 point

Access time of the symbol table will be logarithmic if organized as

- (A) Linear list
- (B) Tree
- (C) Hash table
- (D) None of the given options

☐ (A)☒ (B)☐ (C)☐ (D)

☐ Lecture 43 :
Symbol Table
(unit?
unit=82&lesson=84)

☐ Lecture 44 :
Symbol Table
(Contd.) (unit?
unit=82&lesson=85)

☐ Lecture 45 :
Symbol Table
(Contd.) (unit?
unit=82&lesson=86)

☐ Lecture 46 :
Symbol Table
(Contd.) and
Runtime
Environment
(unit?
unit=82&lesson=87)

☐ Lecture
Material (unit?
unit=82&lesson=88)

☒ **Quiz: Week 9
: Assignment
9
(assessment?
name=156)**

☐ Feedback
Form (unit?
unit=82&lesson=157)

Week 10 ()

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Transcripts ()**

Books ()

- 3) **Symbol table could be used for**
- (A) Checking type compatibility
 - (B) Suppressing duplication of error messages
 - (C) Storage allocation
 - (D) All of the other options

1 point

- ☐ (A)
☐ (B)
☐ (C)
☒ (D)

- 4) **Self-organizing list based symbol tables may show better performance due to**
- (A) Locality of input program
 - (B) Locality of compiler
 - (C) Both locality of input program and compiler
 - (D) None of the given options

1 point

- ☒ (A)
☐ (B)
☐ (C)
☐ (D)

- 5) **Which of the following is NOT likely to be kept in a symbol table?**
- (A) Name
 - (B) Location
 - (C) Scope
 - (D) None of the other options

1 point

- ☐ (A)
☐ (B)
☐ (C)
☒ (D)

- 6) **Most frequent operation on a symbol table is**
- (A) Insert
 - (B) Delete
 - (C) Modify
 - (D) Lookup

1 point

- ☐ (A)
☐ (B)
☐ (C)
☒ (D)

7)

1 point

Which of the following phases of compiler does NOT use symbol table?

- (A) Semantic analysis
- (B) Code generation
- (C) Code optimization
- (D) None of the given options

- ☐ (A)
- ☐ (B)
- ☐ (C)
- ☒ (D)

8) One symbol table per scope is suited for

1 point

- (A) Single-pass compilers
- (B) Multi-pass compilers
- (C) Both single- and multi-pass compilers
- (D) None of the given options

- ☒ (A)
- ☐ (B)
- ☐ (C)
- ☐ (D)

9) If two types have same name they can be

1 point

- (A) Name equivalent
- (B) Structurally equivalent
- (C) Both name and structurally equivalent
- (D) May not be name equivalent

- ☒ (A)
- ☐ (B)
- ☐ (C)
- ☐ (D)

10) To minimize access time, symbol table should be organized as

1 point

- (A) Linear table
- (B) Tree
- (C) Hash Table
- (D) Circular list

- ☐ (A)
- ☐ (B)
- ☒ (C)
- ☐ (D)

11) Symbol table data is filled by

1 point

- (A) Lexical analyzer
- (B) Parser
- (C) Both lexical analyzer and parser
- (D) Neither lexical analyzer nor parser

- ☐ (A)
- ☐ (B)
- ☒ (C)
- ☐ (D)

12) Activation record stores

1 point

- (A) Parameters
- (B) Local variables
- (C) Parameters and local variables
- (D) Parameters, local variables and code for procedures

- ☐ (A)
- ☐ (B)
- ☒ (C)
- ☐ (D)

You may submit any number of times before the due date. The final submission will be considered for grading.

Submit Answers