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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)

3) Symbol table could be used for *1 point*

(A) Checking type compatibility
(B) Suppressing duplication of error messages
(C) Storage allocation
(D) All of the other options

- ○ (A)
- ○ (B)
- ○ (C)
- ◉ (D)

4) *1 point*

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

- ◉ (A)
- ○ (B)
- ○ (C)
- ○ (D)

5) Which of the following is NOT likely to be kept in a symbol table? *1 point*

(A) Name
(B) Location
(C) Scope
(D) None of the other options

- ○ (A)
- ○ (B)
- ○ (C)
- ◉ (D)

6) Most frequent operation on a symbol table is *1 point*

(A) Insert
(B) Delete
(C) Modify
(D) Lookup

- ○ (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