CS508-MODERN PROGRAMMING LANGUAGE

SOLVED MCQS FROM MID TERMS PAPERS

SOLVED BY JUNAID MALIK AND TEAM



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1. ---------- was designed primarily for system simulation.
    1. APL
    2. SNOBOL
    3. Pascal
    4. Simula
2. Which of the following is not a discrete type in ada.
    1. Integer type
    2. Modular type
    3. Character type
    4. String type
3. The property list in LISP is a substitute of ---------.
    1. C/C++ pointer
    2. C/C++ structure
    3. Java interfaces
    4. Complier

4. Which of the following operator is used for pattern matching in SNOBOL?

    1. = (Equal)
    2. = (Not Equal)
    3. . (Dot)
    4. (Space)

5. In SNOBOL we can create new pattern by --------- two or more patterns.

    1. Matching
    2. Replacing
    3. Removing
    4. Concatenating

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6. A -------- is used to signify a potentially infinite loop in ada.

1. Full loop
2. Simple loop
3. Special loop
4. Master loop

7. The design and evaluation of a particular ---------- is highly dependent on the domain in

which it is to be used.

1. Computer program
2. Programming language
3. Database system
4. Software design

8. "Everything for everybody" was the motive of the language.

1. COBOL
2. LISP
3. PL/1 AL-JUNAUID INSTITUTE OF GROUP
4. JAVA

9. Which of the following is not part of standard SNOBOL 4 statement structure?

1. Label
2. END
3. Statement body
4. Goto Field

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10. The first programming language was ---------- developed by Zuse in isolation.

1. Ada
2. Algol
3. PL1
4. Plankalkul

11. The tools we use have a profound (and devious!) influence on our ---------- habits and, on our thinking abilities.

1. Seeing
2. Listening
3. Thinking
4. Feeling

12. Which of the following functions assigns value 5 to symbol y.?

1. >(setq 5 y)
2. >(setq.5.y)
3. >(setq y 5)
4. >(setq.y.5)

13. ---------- was considered good for describing algorithms.

1. FORTRAN
2. ALGOL
3. LISP AL-JUNAUID INSTITUTE OF GROUP
4. Ada

14. ---------- was developed at Bell Labs by Stroustrup. It evolved from C and SIMULA 67.

1. C#
2. C++

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3. Java
4. Smalltalk

15. What is maximum length of variable name in Snobol?

1. 16
2. 32
3. 64
4. 120

16. The first programming language to support Recursion was----------.

1. ADA
2. LISP
3. FORTRAN
4. COBOL

17. Two important versions of LISP are ----------.

1. Scheme and Atoms
2. Scheme and Common Lisp
3. Common Lisp and defacto
4. List and Common Lisp

18. Pascal language was popular in Colleges and universities to teach:

1. Structured programming
2. Object Oriented programming
3. Business programming
4. Scripting language

19. ---------- was developed at Sun in the early 1990s and is based on C++.

1. C#
2. Java

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3. Pascal
4. Smaltalk

20. To implement a counter-controlled loop in LISP. Which of the following statement is used?

1. listLoop
2. iterate
3. defun
4. dotimes

21. Measure of ---------- is considered as the cost of writing programs in a programming language.

1. Readability
2. Writability
3. Reliability
4. Productivity

22. ---------- was the era when programming language design took an empirical approach.

1. 1940s
2. 1950s
3. 1960s
4. 1970s

23. --------- are a type of Aliasing.

1. Pointers
2. Parameters
3. Arrays
4. Linked List

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24. Some languages allow special keywords for signaling the start and end of a construct, making it more ---------- and less prone to errors.

1. Readable
2. Writable
3. Listenable
4. Watchable

25. In the Decimal fixed point type. The distance between values is implemented as a power of --------.

1. 2
2. 10
3. 8
4. 16

26. Following are some of the reasons for studying concepts related to different programming languages EXCEPT.

1. Increased ability to learn new language
2. Increased capability to design communication links
3. Increased ability to design new languages
4. Increased capacity to express programming concepts

27. Which of the following statement is correct about SNOBOL?

1. Poor Readability Poor Writablity
2. Poor Readability Good Writablity
3. Good Readability Poor Writablity
4. Good Readability Poor Writablity AL-JUNAUID INSTITUTE OF GROUP

28. A query given to a PROLOG system:

1. Is a pattern matching exercise

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2. Cannot contain variables
3. Is treated an object
4. Does not involve database

29. A loop in which condition is tested after executing the body of loop is called post-test loop. Which of the following post- test loop is not supported in Ada language?

1. 'While' loop
2. 'do while' loop
3. 'for' loop
4. Infinite loop

30. The integrity of types is checked from all together in -------.

1. SNOBOL
2. Ada AL-JUNAUID INSTITUTE OF GROUP
3. Plankal Koll
4. ALGOL

31. Following are object oriented programming languages EXCEPT

1. C#
2. C++
3. JAVA
4. LISP

32. One is limited in his/her ---------- by the tools used to express his/her ideas.

1. Speaking
2. Thinking
3. Listing
4. Writing AL-JUNAUID INSTITUTE OF GROUP

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33. “Conditional control transfer” gave rise to the idea of ---------- which are blocks of code that can be reused over and over.

1. Namespace
2. Header Files AL-JUNAUID INSTITUTE OF GROUP
3. Libraries
4. Objects

34. Which of the following is considered as legal variable name in SNOBOL.

1. my.var
2. 1myvar
3. _myvar
4. .myvar

35. If a language provides a feature of referencing a variable in more than one way then we say that the language provides--------.

1. Data mining
2. Reliability
3. Aliasing AL-JUNAUID INSTITUTE OF GROUP
4. Orthogonality

36. LISP stand for List ---------- Language.

1. Professional
2. Programming
3. Processing
4. Procedure

37. Which of the following function in LISP determines whether ‘m’ is a member of list ‘T’ or not?

1. (cond ((member T)m))
2. (eq member (T , m))

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3. (defun member (m T))
4. (is Member (m, T))

38. A 'break' statement in C-language is used to exit from loop structure. It's alternative in Ada language is:

1. exit
2. Kill
3. Terminate
4. Breakif

39. ---------- was the first object oriented language.

1. JAVA
2. LISP
3. COBOL AL-JUNAUID INSTITUTE OF GROUP
4. SIMULA

40. The only Control structure in SNOBOL is ----------

1. For loop
2. Go to statement
3. If Else statement
4. Switch statement

41. LISP was the first programming language that introduced the concept of ----------.

1. Pointers
2. Arrays
3. Dynamic typing
4. Trees

42. "do time" loop of LISP is similar in working to ---------- of Ada.

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1. Switch statement
2. While loop
3. If-else statement
4. For loop

43. SNOBOL stands for ---------- language.

1. String Oriented Symbolic
2. Structure Oriented Simple
3. String Oriented Simple
4. Structure Oriented Symbolic

44. PHP stands for ---------- Home Page.

1. Public
2. Private
3. Personal
4. Protected

45. The function that is used to remove all properties of a symbol in Lisp is:

1. NULLP
2. RAMOVE
3. Terminate-all
4. Remprop

46. The declarative language among the following is:

1. PROLOG
2. PASCAL AL-JUNAUID INSTITUTE OF GROUP
3. C++
4. C

47. One of the significant feature associated with SNOBOL is ----------

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1. Performing arithmetic operation separately
2. Mixing arithmetic and string operations
3. Explicit Variable declaration
4. Allows String manipulation operation only

48. 16-23 function points show that language level is ----------

1. 16-23
2. 4-8
3. 9-15
4. 1-3

49. In the ordinary fixed point type, the distance between values is implemented as a power of ----------

1. 16
2. 10
3. 2
4. 8

50. Low level features are very important in a language if you want to work on ----------

1. Scientific Application
2. Artificial Intelligence Application
3. System programming
4. Functional Paradigm

51. $ operator in SNOBOL is used as both a/an --------- and -------- operator.

1. Unary, external
2. Internal, binary
3. Unary, binary
4. external, internal

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52. C language was popular in students due to:

1. Easy portability
2. Orthogonality
3. Arithmetic decimal support
4. Size of language

53. Using SNOBO L, the correct way to create a one-dimensional array of 7 elements with the lower index being 2 and the upper index being 8.

1. X=ARRAY('2;8')
2. X=ARRAY('2:8')
3. X=ARRAY('2,8')
4. X=ARRAY('2.8')

54. Disjunction in Prolog is through -------- and conjunction is through ---------

1. Dot(.), OR
2. OR, Dot(.)
3. Coma(,), OR
4. OR, coma(,)

55. Ada discriminate types is similar to _____.

o C/C++ pointer

o **C/C++ union** AL-JUNAUID INSTITUTE OF GROUP

o C/C++ reference

o All of the given

56. The block structure feature of ALGOL60 has ____ scope.

o No

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o Local **PG # 27**

o Universal

o Global

57. Unlike C/C++, Ada can have _____ within functions/procedures.

o Objects

o **Functions/procedures**

o Events

o Parameters

58. In the Decimal fixed point type, the distance between values is implemented as a power of ___.

o 2

o **10** **PG # 53**

o 8

o 16

59. Function must have at least _____ return statement.

o Three

o Two AL-JUNAUID INSTITUTE OF GROUP

o **One**

o Four

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Every function must have at least one return statement. A procedure is not required to have any return statements.

The expression in a function's return statement must evaluate to a type that matches the return type in the function's declaration.

60. ____ operations must have one of its parameters of the tagged type.

- o Concurrent
- o Synchronized
- o **Primitive PG # 63**
- o Generic

61. An understanding of implementation issues leads to a/an ____ of why languages are designed the way they are.

- o Uncertainty
- o **Understanding PG # 5**
- o Misunderstanding
- o Confusion

62. ____ has an efficient use of processor and memory.

- o Plankul Kool

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- **LISP**
- CORBA
- C++

63. ____ is/are harmful as far as readability is concerned.

- **Overloading**
- Orthogonality
- Statements like Break or Continue
- Case statement

64. A language that can be used for a wide domain of applications has higher ____.

- Portability
- **Generality PG # 21**
- Reliability
- Readability

65. . Imperative programming languages are the direct result of ____.

- Charles Babbage engine
- Logic or list program languages.
- **Von Neumann architecture PG # 22**
- Language application domain

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66. Which statement is true from programming language evolution perspective about 1970's era?

o Analysis and elaboration era

o **Era of effective software technology PG # 32**

o Era of object oriented programming languages

o Era of discovery and description

67. Variable name in SNOBOL may not be longer than ___.

o 150 characters

o 250 characters

o 500 characters

o **120 characters PG # 34**

68. If we have two spaces in SNOBOL the first is used for ___ and the second one for ____.

o **concatenation, pattern matching PG # 36**

o immediate assignment, replacement

o pattern matching, concatenation

o as a whole assignment, immediate assignment.

69. . Today about 50 % coding is done in ____.

o BASIC

o C

o ADA

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- **Visual Basic**

70. Which statement is correct about Table in SNOBOL?

- **Table is indexed by number PG # 45**
- Table is indexed by the key
- Table can be indexed by both keys and numbers
- Table cannot be indexed

71. Which of the following statement is Correct about SNOBOL?

- Poor readability
- Good writability
- **Poor readability and writability PG # 46**
- Good readability

72. The first-level elements in LISP are called ___ level elements.

- First
- Index
- **Top PG # 68**
- Priority

The first-level elements in LISP are called top-level elements. For example top elements of list (a b c) are a, b, and c.

Similarly, top elements of list (a (b c)) are a and (b c).An empty list is represented by nil. It is the same as (). AL-JUNAUID INSTITUTE OF GROUP

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73. To write a user defined function in LISP we use ____.

o Setq

o Defun PG # 74

o Def func

o func

74. dotime loop of LISP is similar in working to ___ of Ada.

o while loop

o for loop

o switch statement

o Both while loop and switch statement

75. (.)Dot operator is a ____ in SNOBOL.

o Reference pointer

o Unary operator

o Class pointer

o **Binary operator**

76. The GOTO statement in SNOBOL is____.

o explicit

o pattern matched

o implicit

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o **an indirect reference.**

77. The first argument in LISP list is the __

o list

o function

o argument

o atom

78. . Function in LISP is in _____notation.

o postfix

o infix

o prefix PG # 68

o none of the given

79. ____ may also change global variable as a side effect.

o time LISP iteration

o list LISP iteration

o **dolist LISP iteration**

o dotime LISP iteration

80. We have extensive use of ____ in LISP.

o for loop

o switch statement

o **recursion**

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o AI

81. Java has no____.

o multiple inheritance

o struct

o enum type

o **All of the Given**

82. Which of the following is a language designed for distributed computing architecture?

o **CORBA**

o FORTRAN

o ADA

o LISP

83. ____does not have a predefined inheritance hierarchy.

o ALGOL

o PROLOG

o C++

o **Ada PG # 50**

84. Record in Ada is similar to structure in C/C++. Record members in Ada is accessed through a/an____

o **(.)Dot operator PG # 54**

o None of the given

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o both (□)arrow operator and (.)Dot operator

o (□)arrow operator

85. We may create our own exceptions in __.

o C

o SNOBOL

o C++

o **Ada**

86. A language is reliable if during execution it does not create _____.

o Result

o **Error**

o Bytecode

o Malfunction

87. If the program written in a particular language is less ___ than the cost of failure of the system may be significant.

o Writable

o **Reliable** **PG # 20**

o General

o Readable

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88. The portability has direct relation with ____.

o Simplicity

o Readability

o Generalization

o **Standardization PG # 21**

89. Conditional control transfer" gave rise to the idea of ___ which are blocks of code that can be reused

over and over.

o Namespaces

o Header Files

o Objects

o **Libraries PG # 22**

90. Identify the feature which was not available in FORTRAN-IV.

o **support for structured programming PG # 26**

o logical IF statement

o support for explicit type declarations

o subprograms could also be passed as parameters

91. ____ programming language is known as “Write-Only” language.

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o FORTRAN

o BASIC

o PL/1

o **APL PG # 29**

92. Which statement is true about SNOBOL?

o Its developers are computer experts

o Its developers have limited introduction with computer science PG # 46

o Is an example of aspect programming languages

o Have many data types

93. SONOBOL is case__

o Sensitive

o **In-Sensitive PG # 34**

o Super-Sensitive

o Not-Sensitive

94. The earliest form of a computer language was __ motion.

o **Physical PG # 21**

o Logical

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- Virtual
- Spiritual

95. _____ is The First High Level Language

- **FORTAN** **PG # 26**
- Ada
- Plankal kül
- LISP

96. Following factors influences a portable language design EXCEPT

- Computer architecture
- Readability
- Programmer's time
- **Windows XP**

97. _____ is concerned with maintenance and debugging this is a very important concern because if

maintenance cost is reduced, the overall cost on the software will also be reduced.

- **Readability** **PG # 20**
- Writability
- Orthogonality
- Portability

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98. A language that is more orthogonal is usually more ___.

- **Readable**
- Writable
- Portable
- Reliable

99. Which of the given resulted in more complex software requiring support for software engineering in the programming languages.

- increasing Hardware Cost only
- Decreasing Software Cost only
- increasing Hardware Cost and Decreasing Software Cost
- **Decreasing Hardware Cost and increasing Software Cost**

101. COBOL is mainly designed for _____.

- Scientific experiments
- **Business application PG # 23**
- Al applications
- Publishing and writing algorithm

102. First language that provided the concept of Pointer data type was ____.

- COBOL

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- o LISP
- o **PL/1 PG # 29**
- o JAVA

103. + Sign is used for ___ in SONOBOL

- o **Line Continuation PG # 39**
- o Line Breakage
- o Body of the program
- o Immediate assignment

104. First electronic computer was

- o **ENIAC PG # 21**
- o Baggage Analytical Engine
- o Intel 386
- o IBM x86

105 : Sign in program written in SONOBOL is used to show the ___

- o Line continuation
- o **Body of the program**
- o Line breaking

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- immediate assignment

106. Following are some of the reasons for studying concepts related to different programming languages EXCEPT

- Increased ability to learn new languages
- **Increased capability to design communication links**
- Increased ability to design new languages
- Increased capacity to express programming concepts

107. Following are object oriented programming languages EXCEPT

- C++
- JAVA
- **LISP**
- C#

108. Following are imperative languages EXCEPT

- **LISP** **PG # 22**
- C
- FORTRAN
- PASCAL

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109. Learning the implementation details of a language helps the programmer in…

- Finding bugs
- Fixing bugs
- **Both finding and fixing bugs**
- Neither finding nor fixing bugs

110. Learning curve is _____ proportional to the number of basic components.

- **Directly** **PG # 15**
- Indirectly
- both directly and indirectly
- neither directly nor indirectly

111. Binary operator in SONOBOL must has at least _____ spaces on both sides.

- 2
- **1** **PG # 35**
- 3

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- 5

112. PROLOG represent paradigm.

- **Declarative PG # 82**
- Formal
- Functional
- Algorithmic

113. ___ was the first object oriented language.

- COBOL
- LISP
- JAVA
- **SIMULA PG # 29**

114. “Everything for everybody” was the motive of the language

- COBOL
- LISP
- **PL/1 PG # 29**
- JAVA

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115. COBOL was the first language that brings the concept of _____

- **Records** **PG # 28**
- Structure
- Object
- Variable

116. ____are a type of Aliasing.

- Pointers
- Parameters
- **Arrays**
- Linked List

117. SNOBOL was designed for ___ purpose.

- **String manipulation** **PG # 29**
- AI
- Business
- Scientific

SNOBOL (1964) designed as a string manipulation language (at Bell Labs by Farber, Griswold, and Polensky). It had

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powerful operators for string pattern matching but suffered from poot readability and maintainability.

118. A space is used as for ___ concatenation

- o Variable
- o String
- o Data Type
- o **Operator PG # 36**

119. A language evaluation criteria includes following factors EXCEPT

- o Readability
- o Writability
- o Portability
- o **Modularity**

120. Learning different programming languages helps in increasing the ____ to express programming concepts

- o Range
- o Volume
- o **Capacity PG # 5**
- o Level

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121. If a language provides a feature of referencing a variable in more than one way then we say that the language provides _____.

- **Aliasing** **PG # 16**
- Data Mining
- Orthogonality
- Reliability

If a language has more than one way to accomplish the same task, then it can cause confusion and complexity.

122. For immediate value assignment ____ sign is used.

- %
- &
- **$** **PG # 40**
- *

123. _____ was considered good for describing algorithms.

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- FORTRAN
- **ALGOL PG # 27**
- LISP
- Ada

124. Which of the following is an incorrect option from the following statements regarding „objectives of learning new languages'?

- Help to compare different languages.
- Help in transition from one language to other language.
- **Help in understanding the language piracy policy.**
- Help to choose a language for development of a certain application.

125. If a language become very simple then it will _____.

- increase readability
- **increase writability**
- increase readability and decrease writability
- decrease both readability and writability

126. LISP was basically developed to solve _____ problems.

- **Artificial intelligence PG # 23**
- Accounting

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- o Scientific
- o Business

127. Smalltalk was the first purest _____ language and pioneered graphical user interface.

- o **object oriented** **PG # 30**
- o structured
- o procedural
- o functional

Smalltalk - 1972-1980 – The Purest Object-Oriented Language

It was developed at Xerox PARC, initially by Alan Kay and then later by Adele Goldberg.

128. Which of the following is used for indirect referencing in SNOBOL?

- o **Unary $** **PG # 42**
- o Binary S
- o Unary &
- o Binary &

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129. SIZE () arid REPLACE () in SNOBOL4 are ___ functions

- **Primitive** **PG # 42**
- built-in
- user defined
- both primitive and built-in

Primitive Functions

There are a number of primitive functions but we shall look at only a few. These include SIZE and REPLACE

functions. The SIZE function returns the size of a string and the REPLACE function is used to replace one character with another in the entire string.

130. Reliability of a language addresses following concepts/ factors EXCEPT

- Type checking
- Array bounds checking
- Exception handling

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- **Language development environment PG # 20**

131. _____ provide middle layer among browser and database.

- JavaScript
- **PHP**
- C#
- SMALTALK

132. The only Control structure in SNOBOL is _____.

- If Else statement
- Switch statement
- **Go to Statement PG # 45**
- For Loop

133. Two-dimensional arrays are stored column-wise (column major) in _____.

- ALGOL
- BASIC
- **FORTRAN PG # 5**

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- C#

134. The first high level language is _____.

- **FORTRAN PG # 26**
- Plankal kool
- Ada
- SNOBOL

135. _____was the first step towards the complex languages of today.

- ENIAC
- Pascal
- A-0 Compiler
- **Short Code language PG # 22**

136. Ada 95 is the first internationally standardized _____ programming language.

- Structured
- **Object-Oriented PG # 48**
- Non-Structured
- Logical

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137. In the Ordinary fixed point type, the distance between values is implemented as a power of _____.

o 16

o **2** **PG # 52**

o 10

o 8

138. Operator overloading ____ Writability but Readability is affected.

o **Decreases**

o Increases

o Has no affect on

o Stabilizes

139. ____ is not good as far as reliability of a language is concerned.

o Orthogonality

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- **Readability**
- Writability
- Aliasing

140. Which statement best suited for C programming language?

- String manipulation language
- First language to provide exception handling
- **With powerful set of operators but poor type checking PG # 30**
- Introduce the notion of class

141. ____ operations in SNOBOL are right associative.

- Unary
- **Exponentiation PG # 34**
- Multiplication
- Addition

142. ____ is used in arithmetic expression in SNOBOL.

- Space operator
- $ operator
- **String**
- Character

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143. We use _____ operator for indirect referencing in SNOBOL.

o Unary dot(.)

o Unary $ PG # 42

o Binary dot(.)

o Binary $

144. In _____ we shape the program as a function.

o SNOBOL

o LISP

o ALGOL

o **C**

145. LISP was the first programming language that introduced the concept of _____.

o Pointers

o Arrays

o Dynamic typing

o Trees

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146. Which of the following is used in LISP to forbid the evaluation of a symbol?

o Space

o **Quote PG # 70**

o Hyphen

o Double quote

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