SASKATCHEWAN COMPUTER SCIENCE 30 · FINAL EXAM

Final Exam — Practice Test

Saskatchewan Computer Science 30 • 50 questions

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button to let Brett know so he can fix it.

1 **An array holds the values [10, 13, 16, 19, 22, 25]. The value at index 2 is _____**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **A file of 20 bytes contains this many bits _____**

ANSWER _____

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3 **A file of 12 bytes contains this many bits _____**

ANSWER _____

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4 **A variable starts at 0. A loop adds 2 each time it runs, and it runs 5 times. The final value of the variable is ____**

ANSWER _____

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5 **The decimal number 13 written in binary is ____**

ANSWER _____

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6 **An array holds the values [10, 13, 16, 19, 22]. The value at index 3 is ____**

ANSWER _____

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7 **A file of 40 bytes contains this many bits ____**

ANSWER _____

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8 **A file of 24 bytes contains this many bits ____**

ANSWER _____

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9 **A variable starts at 10. A loop adds 3 each time it runs, and it runs 4 times. The final value of the variable is ____**

ANSWER _____

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10 **The decimal number 10 written in binary is ____**

ANSWER _____

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11 **An array holds the values [10, 13, 16, 19, 22, 25, 28]. The value at index 4 is ____**

ANSWER _____

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12 **A file of 60 bytes contains this many bits ____**

ANSWER _____

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13 **A file of 36 bytes contains this many bits ____**

ANSWER _____

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14 **A variable starts at 5. A loop adds 4 each time it runs, and it runs 3 times. The final value of the variable is ____**

ANSWER _____

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15 **The decimal number 21 written in binary is ____**

ANSWER _____

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16 **A branching structure with a root and leaves is called**

- A node
- B array
- C tree
- D hash table

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17 **Finishing work with a file and saving changes is called**

- A write
- B close
- C path
- D append

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18 **Written explanation of how code works is called**

A dependency

B documentation

C module

D interface

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19 **A class gaining attributes and methods from a parent class is called**

A polymorphism

B constructor

C inheritance

D instance

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20 **A separate line of work in a repository is called**

A pair programming

B branch

C testing

D documentation

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21 **A collection where the last item added is the first removed is called**

A linked list

B tree

C binary tree

D stack

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22 Appending to a file

- A overwrites the start
- B deletes the file
- C reads it only
- D adds data to the end

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23 An interface is

- A how a user or program interacts with software
- B a computer screen only
- C a data file
- D a network cable

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24 **Polymorphism means different classes can**

A share all data

B respond to the same method in their own way

C never use methods

D be identical

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25 **A style guide helps a team by making code**

A consistent and readable

B longer always

C secret

D faster to run

Understand It with Pulse | Flag a mistake

26 **A fixed size ordered collection of values is called**

A record

B list

C stack

D array

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27 **The location of a file on disk is called**

A delimiter

B file

C path

D text file

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28

A file containing related code is called

A SDK

B library

C module

D API

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29

A special method that creates and sets up an object is called

A abstraction

B class

C object

D constructor

Understand It with Pulse | Flag a mistake

30 **Running code with known inputs to check outputs is called**

A style guide

B version control

C testing

D repository

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31 **A collection of related fields stored together is called**

A stack

B record

C queue

D linked list

Understand It with Pulse | Flag a mistake

32 **A character that separates values in a file is called**

- A delimiter
- B text file
- C CSV file
- D open

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33 **A set of tools for building software for a platform is called**

- A SDK
- B API
- C import
- D function call

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34 **Focusing on essential features and hiding detail is called**

A object

B abstraction

C attribute

D method

Understand It with Pulse | Flag a mistake

35 **Agreed rules for how code is written is called**

A style guide

B repository

C commit

D merge

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36 **An array holds the values [10, 13, 16, 19, 22]. The value at index 4 is _____**

ANSWER _____

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37 **A file of 75 bytes contains this many bits _____**

ANSWER _____

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38 **A file of 28 bytes contains this many bits _____**

ANSWER _____

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39 **A loop starts a counter at 5 and adds 2 each time while the counter is less than 15. The number of times the loop runs is _____**

ANSWER _____

Understand It with Pulse | Flag a mistake

40 **The decimal number 15 written in binary is ____**

ANSWER _____

Understand It with Pulse | Flag a mistake

41 **An array holds the values [10, 13, 16, 19, 22, 25, 28, 31]. The value at index 3 is ____**

ANSWER _____

Understand It with Pulse | Flag a mistake

42 **A file of 30 bytes contains this many bits ____**

ANSWER _____

Understand It with Pulse | Flag a mistake

43 **A file of 76 bytes contains this many bits ____**

ANSWER _____

Understand It with Pulse | Flag a mistake

44 **A loop starts a counter at 0 and adds 4 each time while the counter is less than 16. The number of times the loop runs is ____**

ANSWER _____

Understand It with Pulse | Flag a mistake

45 **The decimal number 17 written in binary is ____**

ANSWER _____

Understand It with Pulse | Flag a mistake

46 **An array holds the values [10, 13, 16, 19, 22, 25, 28, 31, 34]. The value at index 1 is ____**

ANSWER _____

Understand It with Pulse | Flag a mistake

47 **A file of 110 bytes contains this many bits ____**

ANSWER _____

Understand It with Pulse | Flag a mistake

48 **A file of 108 bytes contains this many bits ____**

ANSWER _____

Understand It with Pulse | Flag a mistake

49 **A variable starts at 12. A loop adds 5 each time it runs, and it runs 3 times. The final value of the variable is ____**

ANSWER _____

Understand It with Pulse | Flag a mistake

50 **The decimal number 26 written in binary is ____**

ANSWER _____

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ANSWER KEY

1. 16
2. 160
3. 96
4. 10
5. 1101
6. 19
7. 320
8. 192
9. 22
10. 1010
11. 22
12. 480
13. 288
14. 17
15. 10101
16. C
17. B
18. B
19. C
20. B
21. D
22. D
23. A
24. B
25. A
26. D
27. C
28. C
29. D
30. C
31. B
32. A
33. A
34. B
35. A
36. 22
37. 600
38. 224
39. 5
40. 1111
41. 19
42. 240
43. 608
44. 4
45. 10001
46. 13
47. 880
48. 864
49. 27
50. 11010

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