SASKATCHEWAN COMPUTER SCIENCE 20 · FINAL EXAM · 50 QUESTIONS

Final Exam — Practice Test

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 if statement runs its code**

- A always
- B never
- C only when its condition is true
- D only at the end

Understand It with Pulse | Flag a mistake

2 **The first index of an array is**

- A 1
- B 0
- C the length
- D the last value

Understand It with Pulse | Flag a mistake

3 **A strong password should be**

- A your name
- B long and hard to guess
- C the word password
- D shared with friends

Understand It with Pulse | Flag a mistake

4 **A syntax error is caused by**

- A wrong logic only
- B breaking the rules of the language
- C a slow computer
- D a user typing fast

Understand It with Pulse | Flag a mistake

5 **A whole number data type is called**

A boolean

B loop

C integer

D condition

Understand It with Pulse | Flag a mistake

6 **A value passed into a function is called**

A array

B index

C parameter

D element

Understand It with Pulse | Flag a mistake

7 **Encryption protects data by**

A deleting it

B making it public

C slowing the internet

D scrambling it so only authorised people can read it

Understand It with Pulse | Flag a mistake

8 **A logic error is hardest to find because the program**

A will not start

B crashes at once

C prints nothing at all

D runs but gives a wrong result

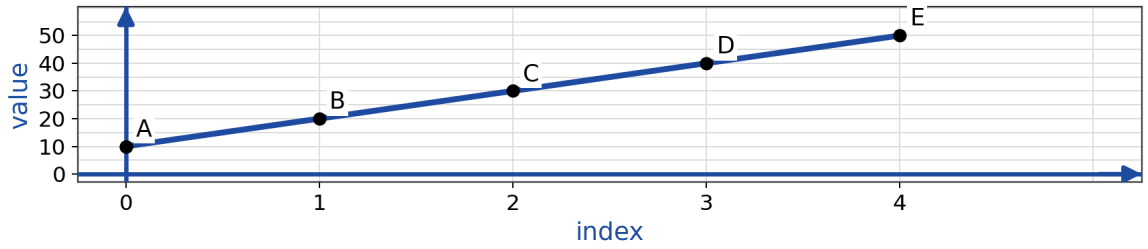
Understand It with Pulse | Flag a mistake

9 **A boolean variable can hold**

- **A** any text
- **B** any decimal
- **C** a picture
- **D** true or false

Understand It with Pulse | Flag a mistake

10 **The graph shows values increasing with index. The pattern is**



- **A** increasing by 10 each index
- **B** decreasing by 10
- **C** staying the same
- **D** doubling each index

Understand It with Pulse | Flag a mistake

11 **A computer that provides data or services to other computers is called**

- A privacy
- B server
- C password
- D encryption

Understand It with Pulse | Flag a mistake

12 **An error where code runs but gives the wrong result is called**

- A testing
- B logic error
- C algorithm
- D pseudocode

Understand It with Pulse | Flag a mistake

13 **A variable starts at 5. 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

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

ANSWER _____

Understand It with Pulse | Flag a mistake

15 **A computer or program that requests data or services is called**

A password

B encryption

C digital footprint

D client

Understand It with Pulse | Flag a mistake

16 **An error that happens while a program is running is called**

- A algorithm
- B pseudocode
- C comment
- D runtime error

Understand It with Pulse | Flag a mistake

17 **A loop starts a counter at 0 and adds 2 each time while the counter is less than 10. The number of times the loop runs is ____**

ANSWER _____

Understand It with Pulse | Flag a mistake

18 **A function that returns the larger of two numbers is called with 7 and 3. The value returned is**

ANSWER _____

Understand It with Pulse | Flag a mistake

19

Copyright means a creator has

A no rights

B to share everything free

C legal rights over their work

D to copy others freely

Understand It with Pulse | Flag a mistake

20

Top down design starts by

A writing all code at once

B testing first

C breaking a big problem into smaller parts

D deleting functions

Understand It with Pulse | Flag a mistake

21 **A loop starts a counter at 1 and adds 3 each time while the counter is less than 13. The number of times the loop runs is ____**

ANSWER _____

Understand It with Pulse | Flag a mistake

22 **A function with no return value is best described as a**

A procedure

B variable

C array

D constant

Understand It with Pulse | Flag a mistake

23 **A server in a network**

A provides data or services

B only prints

C only stores passwords

D blocks all clients

Understand It with Pulse | Flag a mistake

24 **A comment in code is**

A ignored by the computer

B run as a command

C stored as data

D printed always

Understand It with Pulse | Flag a mistake

25 **Which is a valid use of a loop**

A storing one number

B printing once only

C repeating a task many times

D ending a program

Understand It with Pulse | Flag a mistake

26 **The part of a program where a variable can be used is called**

A library

B scope

C call

D function

Understand It with Pulse | Flag a mistake

27 **Three bytes of computer memory hold this many bits**

ANSWER _____

Understand It with Pulse | Flag a mistake

28 **The binary number 1010 written in decimal is**

ANSWER _____

Understand It with Pulse | Flag a mistake

29 **In a loop that runs while a condition is true, the condition is checked**

A only once at the start

B before each run through the loop

C only at the end

D never

Understand It with Pulse | Flag a mistake

30 **A program calls a function to calculate an area three times with different inputs. The main advantage of using the function is that the code is**

- A written once and reused
- B run slower
- C harder to read
- D longer

Understand It with Pulse | Flag a mistake

31 **A file of 75 bytes contains this many bits ____**

ANSWER _____

Understand It with Pulse | Flag a mistake

32 **The decimal number 27 written in binary is ____**

ANSWER _____

Understand It with Pulse | Flag a mistake

33 **Data entered into a program by a user is called**

A input

B integer

C string

D boolean

Understand It with Pulse | Flag a mistake

34 **Running a function by using its name is called**

A call

B parameter

C return value

D array

Understand It with Pulse | Flag a mistake

35 **A file of 20 bytes contains this many bits ____**

ANSWER _____

Understand It with Pulse | Flag a mistake

36 **The decimal number 19 written in binary is ____**

ANSWER _____

Understand It with Pulse | Flag a mistake

37 **A variable starts at 7. A loop adds 3 each time it runs, and it runs 6 times. The final value of the variable is ____**

ANSWER _____

Understand It with Pulse | Flag a mistake

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

ANSWER _____

Understand It with Pulse | Flag a mistake

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

ANSWER _____

Understand It with Pulse | Flag a mistake

40 **The decimal number 29 written in binary is ____**

ANSWER _____

Understand It with Pulse | Flag a mistake

41 **A loop starts a counter at 2 and adds 4 each time while the counter is less than 18. The number of times the loop runs is ____**

ANSWER _____

Understand It with Pulse | Flag a mistake

42 **An array holds the values [10, 13, 16, 19, 22, 25, 28, 31, 34]. The value at index 8 is ____**

ANSWER _____

Understand It with Pulse | Flag a mistake

43 **A file of 5 bytes contains this many bits ____**

ANSWER _____

Understand It with Pulse | Flag a mistake

44 **The decimal number 11 written in binary is ____**

ANSWER _____

Understand It with Pulse | Flag a mistake

45 **A variable starts at 30. A loop adds 5 each time it runs, and it runs 5 times. The final value of the variable is ____**

ANSWER _____

Understand It with Pulse | Flag a mistake

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

ANSWER _____

Understand It with Pulse | Flag a mistake

47 **A file of 65 bytes contains this many bits ____**

ANSWER _____

Understand It with Pulse | Flag a mistake

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

ANSWER _____

Understand It with Pulse | Flag a mistake

49 **A variable starts at 15. A loop adds 4 each time it runs, and it runs 4 times. The final value of the variable is ____**

ANSWER _____

Understand It with Pulse | Flag a mistake

50 **An array holds the values [10, 13, 16, 19, 22, 25, 28, 31, 34]. The value at index 5 is ____**

ANSWER _____

Understand It with Pulse | Flag a mistake

ANSWER KEY

1. C
2. B
3. B
4. B
5. C
6. C
7. D
8. D
9. D
10. A
11. B
12. B
13. 20
14. 22
15. D
16. D
17. 5
18. 7
19. C
20. C
21. 4
22. A
23. A
24. A
25. C
26. B
27. 24
28. 10
29. B
30. A
31. 600
32. 11011
33. A
34. A
35. 160
36. 10011
37. 25
38. 13
39. 240
40. 11101
41. 4
42. 34
43. 40
44. 1011
45. 55
46. 19
47. 520
48. 11010
49. 31
50. 25

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