

《C/C++ 程序设计》2019-2020 考试卷*

<https://github.com/sikouhgw/jxust-Learning-database>

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2020 年 1 月 7 日

1 选择题

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Examples Prepare for your exam (Section I)

1) Which escape character can be used to begin a new line in C?

- A) \a B) \b C) \m D) \n

2) What will be the maximum size of a float variable?

- A) 1 byte B) 2 bytes C) 4 bytes D) 8 bytes

3) The address operator in C is ____.

- A) & B) -> C) * D) add

4) The operator / can be applied to

- A) integer values B) float values C) double values D) All of these

5) What is the output of printf ("%#o", 10) ?

- A) 010 B) 012 C) 10 D) 12

6) The operator a+=4 means:

- A) a = a + 4 B) a + 4 = a C) a = 4 D) a = 4 + 4

7) When the ++ operator appears before a variable (++a), it is called a ____ operator.

- A) basic B) post increment C) standard D) pre increment

8) ____ uses the pointer and then increments it.

- A) *ptNum-- B) *ptNum++ C) *--ptNum D) *++ptNum

9) The term ____ uniquely identifies the element in row 1, column 3.

- A) val[3][1] B) val[1][3] C) val[3,1] D) val[1,3]

10) In a one-dimensional array in C, the first element has an index of ____.

- A) NULL B) 0 C) -1 D) 1

11) ____ refers to the first grade stored in the grades array.

- A) grades[0] B) grades(0) C) grades[1] D) grades{1}

12) To use a stored address, C provides us with an indirection operator, ____.

- A) % B) & C) ^ D) *

13) ____ is a high-speed storage area physically located in the computer's processing unit.

- A) A reserved variable B) A register C) RAM D) A stack

14) The declaration statement ____ declares milesAddr to be a pointer variable that can store the address of an integer variable.

- A) int milesAddr&; B) int *milesAddr;
C) int milesAddr*; D) int &milesAddr;

15) Scaling a random number as an integer value between 1 and N is accomplished using the expression

- A) 1 + (int)rand() / N B) (int)rand() / N
C) 1 + (int)rand() % N D) (int)rand() % N

16) The portion of the function header that contains the function name and parameters is known as a ____.

- A) function body B) function declaratory C) prototype D) stub

17) The logical AND operator is ____.

- A) || B) ! C) && D) %%

18) The use of ____ in a C program will result in a compiler error.

- A) if (age == 40) B) if (age = 40) C) if (40 == age) D) if (40 = age)

19) The second loop of a nested loop is called the ____ loop.

- A) Inner B) Slave C) Outer D) Conditioned

20) If nums is a two-dimensional integer array, ____ refers to element nums[0][0].

- A) *nums B) *(&nums) C) *(*nums) D) &(*nums)

21) The increment operator is ____.

- A) += B) ++ C) = + D) –

22) What is the value returned by strcmp() function when two strings are the equal?

- A) 2 B) 1 C) 0 D) Error

23) If the size of the array is less than the number of initializers then,

- A) Extra values are being ignored B) Generates an error message
C) Size of Array is increased D) Size is neglected when values are given

24) When a break statement is encountered inside a loop:

- A) The loop is immediately terminated
B) The program control resumes at the next statement following the loop
C) Restarts iterations from beginning of loop
D) A and B

25) %x for data input or output means that the data item is:

- A) An unsigned decimal integer B) A short integer
C) A hexadecimal integer D) An Octal integer

26) Consider the declarations

int nums[100];

int *nPtr;

The statement ____ produces the same result as nPtr = nums;

- A) nPtr = &nums[0]; B) nPtr = *nums[0];
C) nPtr = nums[0]; D) nPtr = &nums;

27) Identify the invalid pointer arithmetic

- A) Addition a float value to a pointer
- B) Addition an integer value to a pointer
- C) Subtracting an integer from a pointer
- D) Assigning the value 0 to a pointer variable

28) Pointers are of

- A) integer data type
- B) character data type
- C) unsigned integer data types
- D) None of these

29) The conversion character %u for data input means that the data item is

- A) An unsigned integer
- B) A short integer
- C) A hexadecimal integer
- D) A string followed by white space

30) Which pair of functions below are used for single character I/O.

- A) getchar() and putchar()
- B) Scanf() and printf()
- C) Input() and output()
- D) None of these

31) Which escape character can be used to beep from speaker in C?

- A) \a
- B) \b
- C) \t
- D) \n

32) What will be the maximum size of a double variable?

- A) 1 byte
- B) 4 bytes
- C) 8 bytes
- D) 16 bytes

33) Which operator has the highest priority?

- A) ++
- B) %
- C) +
- D) ||

34) The equality operator is represented by

- A) :=
- B) .EQ.
- C) =
- D) ==

35) Continue statement is used

- A) To go to the next iteration in a loop
- B) Come out of a loop
- C) Exit and return to the main function
- D) Restarts iterations from beginning of loop

36) Null character is represented by

- A) `\n`
- B) `\0`
- C) `\o`
- D) `\e`

37) When the ++ operator appears after a variable (a++), it is called a ____ increment operator.

- A) basic
- B) post increment
- C) standard
- D) pre increment

38) ____ is a correct statement.

- A) `int grades[5] = {98, 87, 92, 79, 85};`
- B) `int grades[5] = 98, 87, 92, 79, 85;`
- C) `int grades[5] = (98, 87, 92, 79, 85);`
- D) `int grades[5] = [98, 87, 92, 79, 85];`

39) __ is a list of values of the same data type that is stored using a single group name.

- A) One-dimensional array
- B) Pointer
- C) Variable
- D) Matrix

40) ____ declares an array of three rows and four columns.

- A) `int val[3,4];`
- B) `int val[3][4];`
- C) `int val[4,3];`
- D) `int val[4][3];`

41) The expression `sum = sum + 10` can be written as ____.

- A) `sum += 10`
- B) `sum = sum ++ 10`
- C) `sum += 10`
- D) `sum ++ 10`

- 42) A local variable that is declared as ____ causes the program to keep the variable and its latest value even when the function that declared it is through executing.
- A) auto B) extern C) static D) register
- 43) A variable that can store an address is known as a(n) ____ variable.
- A) register B) static C) pointer D) extern
- 44) The purpose of the ____ storage class is to extend the scope of a global variable declared in one source code file into another source code file.
- A) auto B) extern C) static D) register
- 45) ____ is a prototype of a function that returns no value.
- A) void funcA(); B) int funcA(); C) funcA(); D) null funcA();
- 46) The ____ function can be used to generate a random number in C.
- A) rand() B) random() C) srand() D) rnd()
- 47) The ____ operator is used to change an expression to its opposite state.
- A) || B) ! C) && D) %%
- 48) The function ____ returns the absolute value of its double-precision argument.
- A) double ceil(double) B) double fabs(double)
C) double fmod(double) D) double abs(double)
- 49) To access the mathematical functions such as log and sqrt, you must include the following preprocessor statement in your program: ____.
- A) #define <mathematical.h> B) #define <math.h>
C) #include <mathematical.h> D) #include <math.h>

50) ____ is a valid statement in C.

A) $a = 10 = c = 25;$

B) $2 = b;$

C) $a = b = c = 25;$

D) $a - 1 = c;$

51) In C, the ____ symbol is called the assignment operator.

A) =

B) --

C) ++

D) ()

52) The expression $\text{price} *= \text{rate} + 1$ is equivalent to the expression ____.

A) $\text{price} = \text{price} * (\text{rate} + 1)$

B) $\text{price} = (\text{price} * \text{rate}) + 123$

C) $\text{price} = \text{price} * \text{rate} + 1$

D) $\text{price} = \text{price} ^ (\text{rate} + 1)$

53) Maximum number of elements in the array declaration $\text{int a}[2][3][4]$ is

A) 18

B) 24

C) 60

D) None of these

54) %s for data input or output means that the data item is:

A) An unsigned decimal integer

B) A short integer

C) A hexadecimal integer

D) None of these

55) What is the output of $\text{printf} ("%0.2f", \text{fmod} (12.5,4))$?

A) 0.60

B) 0.55

C) 0.50

D) 0.65

56) Which of the following header file is required for strcpy() function?

A) string.h

B) strings.h

C) files.h

D) strcpy()

57) The expression ____ adds 3 to “the variable pointed to by gPtr.”

A) $*(\text{gPtr} + 3)$

B) $\text{gPtr} + 3$

C) $*\text{gPtr} + 3$

D) $\&\text{gPtr} + 3$

58) The cast operator has the syntax _____.

- A) (dataType expression) B) (dataType) expression
- C) (expression dataType) D) expression (dataType)

59) %o for data input or output means that the data item is:

- A) An unsigned decimal integer B) A short integer
- C) A hexadecimal integer D) An Octal integer

60) If we store the address of grade[0] in a pointer named gPtr (using the assignment statement gPtr = &grade[0];), then, the expression _____ references grade[0].

- A) gPtr(0) B) &gPtr C) gPtr D) *gPtr

61) Which escape character can be used to make a free space within line in C?

- A) \a B) \b C) \t D) \n

62) The size of a Char variable is

- A) 1 byte B) 8 bytes C) 16 bytes D) None

63) In Windows operating systems, the EOF mark is generated whenever the _____ keys are pressed simultaneously.

- A) Ctrl and D B) Ctrl and F C) Ctrl and E D) Ctrl and Z

64) Operators have precedence. A Precedence determines which operator is

- A) faster B) takes less memory C) evaluated D) takes no arguments

65) Which among the following is an unconditional control structure?

- A) do-while B) if –else C) goto D) for

66) What should be the expression return value for a do-while to terminate?

- A) 1 B) 0 C) -1 D) 2

67) Which of the following description is correct?

- A) If at least one operand is true, the expression containing `&&` operator is true.
B) If at least one operand is true, the expression containing `||` operator is true.
C) There must be a default statement in the switch statement structure.
D) The structure of if statement must have else statement.

68) ____ shows a correct array initialization statement.

- A) `char codes[6] = ['s', 'a', 'm', 'p', 'l', 'e'];`
B) `char codes[] = ('s', 'a', 'm', 'p', 'l', 'e');`
C) `char codes[] = "sample";`
D) `char codes[*] = {'s', 'a', 'm', 'p', 'l', 'e'};`

69) All ____ arrays are created and destroyed each time after calling and completing their execution within the function that they are local to.

- A) global B) auto C) static D) extern

70) The initialization of a two-dimensional array is done in ____ order.

- A) ascending B) row C) descending D) column

71) Coding a function prototype as ____ makes sense when the function is used by a number of other functions in a source code file.

- A) private B) local C) global D) void

72) The expression ____ can also be written as `numPtr[i]`, If `numPtr` is declared as a pointer variable.

- A) `*numPtr + i` B) `*numPtr` C) `(numPtr + i)` D) `*(numPtr + i)`

73) ____ can only be members of the auto, static, or register storage classes.

- A) Constants B) Local variables C) int variables D) Global variables

74) When the function returns control to its calling function, its ____ variables “die”.

- A) local static B) local extern C) extern D) local auto

75) The function ____ converts an ASCII string to an integer.

- A) string itoa(int) B) int atoi(string) C) double atof(string) D) int toupper(int)

76) ____ is the correct way to include a header file in your program.

- A) #include <header-file-name> B) #include <header-file-name>;
C) #include header-file-name D) #include header-file-name;

77) Which keyword is used to transfer control from a function back to the calling function?

- A) return B) go back C) switch D) goto

78) In a switch statement, the word ____ is optional and operates the same as the last else in an if-else chain.

- A) if B) case C) break D) default

79) The operator used to force the conversion of a value to another type is the ____ operator.

- A) conversion B) assignment C) cast D) increment

80) The function ____ yields the result of a value raised to the power of another value.

- A) pow B) abs C) exp D) sqrt

2 程序题

1. 输入一个数判断是偶数还是奇数；
2. 输入一个数判断是质数还是合数；
3. 缺。