

Programming Logic

1.Which of this is used to skip one iteration:

- A) break
- B) continue
- C) goto
- D) return

Answer:b

2.Which of the following does not require to include math.h header file?

- A) pow()
- B) rand()
- C)sqrt()
- D) sinh()

Answer:b

3.Which has the highest precision?

- A. float
- B. double
- C. unsigned long int
- D. Long int

Answer:b

4.Choose the correct statement

while (0 == 0) { }

- A) It has syntax error as there are no statements within braces {}
- B) It will run forever
- C) It compares 0 with 0 and since they are equal it will exit the loop immediately
- D) It has syntax error as the same number is being compared with itself

Answer:b

5.Predict the output of following code:

```
main()
{
int a=10,x;
x= a- + ++a;
printf("%d",x);
```

```
}
```

A) 19

B) 20

C) 22

D) 23

Answer:b

6.Guess the output:

```
main()
```

```
{
```

```
printf(“%d”, sizeof(‘a’));
```

```
//same as → sizeof(97)
```

```
}
```

A) 2 or 4 —

B) 1 or 3

C) Garbage value

D) ASCII value of a

Answer:a

Explanation:

sizeof takes ascii value of character and determines number of bytes required by it. Ascii is number, Number is of type int. so integer requires either 2 in 16 or 4 in 32 bit machine

7.Predict the output of following code:

```
main()
```

```
{
```

```
int a=b=c=d=10;
```

```
printf(“%d,%d,%d,%d”,a,b,c,d);
```

```
}
```

A) Error

B) 10,10,10,10

C) Garbage Value,Garbage Value,Garbage Value,10

D) Garbage Value,Garbage Value,Garbage Value,Garbage Value

Answer: a

Explanation: error: ‘b’ , ‘c’ , ‘d’ undeclared

8.Select the missing statement?

```
#include
```

```
long int fact(int n);
```

```
int main()
```

```
{
```

`\\missing statement`

`}`

`long int fact(int n)`

`{`

`if(n>=1)`

`return n*fact(n-1);`

`else`

`return 1;`

`}`

A) `printf("%l\\n",fact(5));`

B) `printf("%u\\n",fact(5));`

C) `printf("%d\\n",fact(5));`

D) `printf("%ld\\n",fact(5));`

Answer:d

9. If a function's return type is not explicitly defined then it's default to _____ (In C).

A) int

B) float

C) void

D) Error

Answer:a

10. How many times the below loop will be executed?

`#include`

`int main()`

`{`

`int i;`

`for(i=0;i<5;i++)`

`printf("Hello\\n");`

`}`

A) 5

B) 1

C) 0

D) 3

Answer:a

11. How many times loop will executed?

`#include`

`int main()`

`{`

`int x,y;`

```

for(x=5;x>=1;x-)
{
for(y=1;y<=x;y++)
printf("%d\n",y);
}
}

```

- a) 11
- b) 13
- c) 15
- d) 10

Answer:c

12. Which of the following indicate the end of file?

- a) feof()
- b) EOF
- c) Both feof() and EOF
- d) None of the mentioned

Answer:c

13. If a functions return type is not explicitly defined then it is default to(in C).

- a) int
- b) float
- c) void
- d) error

Answer:a

14. Where the local variable is stored ?

- a) Disk
- b) Stack
- c) Heap
- d) Register

Answer:b

15. How many times loop will executed ?

```

#include
int main()
{
int i;
for(i=0;i<5;i++)
{

```

```
printf("Hello\n");  
}  
}
```

- a) 0
- b) 1
- c) 3
- d) 5

Answer:d

16. What is dangling pointer?

- a) points to garbage value
- b) points to function
- c) Both A and B
- d) None of these

Answer:a

17. what is the purpose of ftell ?

- a)to get the current file position
- b)to get the current file attribute
- c)to get the current file status
- d)to get the current file name

Answer:a

18. What is recursion ?

- a) looping
- b) a function calls another function repeatedly
- c) a fnction calls repeatedly
- d) function calls itself repeatedly

Answer:d

19. What is the similarity between enum and struct ?

- a) can assign new values
- b) can create new data types
- c) nothing in common
- d) they are same

Answer:b

20. which of the following is not a fundamental datatype?

- a) Enum

b) unsigned long int
c) Long int
d) double
Answer:a

21. How many times hello will print ?

```
#include  
int main(void)  
{  
    int i;  
    for(i=0;i<5;i++);  
    printf("hello");  
}
```

a) Compilation error
b) Runtime error
c) 4
d) 1

Answer:b

22. What is the output of this C code?

```
#include  
void main()  
{  
    static int i;  
    printf("i is %d", i);  
}
```

a) 0
b) 1
c) Garbage Value
d) Run time error

Answer:a

23. What is the output of this C code?

```
#include  
int *i;  
int main()  
{  
    if (i == NULL)  
        printf("true\n");  
    return 0;  
}
```

- a) true
- b) true only if NULL value is 0
- c) Compile time error
- d) Nothing

Answer:a

24. What is the output of this C code?

```
#include
static int i;
void main()
{
int i;
printf("i is %d", i);
}
```

- a) 0
- b) Garbage Value
- c) Run time error
- d) Nothing

Answer:b

25. What is the output of this C code?

```
#include
static int x = 5;
void main()
{
x = 9;
{
int x = 4;
}
printf("%d", x);
}
```

- a) 9
- b) 4
- c) 5
- d) 0

Answer:a

26. The scope of an automatic variable is:

- a) Within the block it appears
- b) Within the blocks of the block it appears
- c) Until the end of program

d) Within the block it appears & Within the blocks of the block it appears
Answer:d

27. Automatic variables are allocated space in the form of a:

- a) stack
- b) queue
- c) priority queue
- d) random

Answer:a

28. Which of the following is a storage specifier?

- a) enum
- b) union
- c) auto
- d) volatile

Answer:c

29. Automatic variables are stored in

- a) stack
- b) data segment
- c) register
- d) heap

Answer:a

30. What is the output of this C code?

```
#include
int main()
{
    register int i = 10;
    int *q = &i;
    *q = 11;
    printf("%d %d\n", i, *q);
}
```

- a) Depends on whether i is actually stored in machine register
- b) 10 10
- c) 11 11
- d) Compile time error

Answer:d

31. Register storage class can be specified to global variables

- a) true
- b) false
- c) Depends on the compiler
- d) Depends on the standard

Answer:b

32. Register variables reside in

- a) stack
- b) registers
- c) heap
- d) main memory

Answer:b

33. Which of the following operation is not possible in a register variable?

- a) Reading the value into a register variable
- b) Copy the value from a memory variable
- c) Global declaration of register variable
- d) All of the mentioned

Answer:d

34. Which of the following is not valid variable name declaration?

- a) int __v1;
- b) int __1v;
- c) int __V1;
- d) None

Ans:d

35. Which of the following is not a valid variable name declaration?

- a) int _v1;
- b) int v_1;
- c) int 1_v;
- d) int _1v

Ans:c

Explanation:Variable name can't start with a digit.

36. Variable names beginning with underscore is not encouraged. Why?

- a) It is not standard form
- b) To avoid conflicts since assemblers and loaders use such names
- c) To avoid conflicts since library routines use such names

d) To avoid conflicts with environment variables of an operating system
Ans:c

37. Which is not a valid C variable name?

- a) int number;
- b) float rate;
- c) int variable_count;
- d) int \$main;

Ans:d

38. Which of the following is true for variable names in C?

- a) They can contain alphanumeric characters as well as special characters
- b) It is not an error to declare a variable to be one of the keywords (like goto, static)
- c) Variable names can't start with a digit
- d) Variable can be of any length

Ans:c

39. What will be the output?

```
#include
int main()
{
    int main = 5;
    printf("%d", main);
    return 0;
}
```

- a) compile-time error
- b) run-time error
- c) run without any error and prints 5
- d) experience infinite looping

Ans:c

Explanation: A C program can have same function name and same variable name.

40. Which of the following cannot be a variable name in C?

- a) friend
- b) true
- c) volatile
- d) export

Ans: c

Explanation: volatile is C keyword

41. The format identifier '%i' is also used for _____ data type?

- a) char
- b) double
- c) float
- d) int

Ans:d

Explanation:Both %d and %i can be used as a format identifier for int data type.

42. Which of the following is a User-defined data type?

- a) struct {char name[10], int age};
- b) typedef enum {Mon, Tue, Wed, Thu, Fri} Workdays;
- c) typedef int Boolean;
- d) all of the mentioned

Answer:d

43. What is short int in C programming?

- a) Basic datatype of C
- b) Qualifier
- c) short is the qualifier and int is the basic datatype
- d) All of the mentioned

Ans:c

44. What is the output of this C code?

```
#include
int main()
{
    signed char chr;
    chr = 128;
    printf("%d\n", chr);
    return 0;
}
```

- a) 128
- b) -128
- c) Depends on the compiler
- d) None of the mentioned

Ans:b

Explanation:signed char will be a negative number.

45. What is the size of an int data type?

- a) 4 Bytes

- b) 8 Bytes
- c) Depends on the system/compiler
- d) Cannot be determined

Ans:c

46. Which of the datatypes have size that is variable?

- a) int
- b) struct
- c) float
- d) double

Ans:b

Explanation:Since the size of the structure depends on its fields, it has a variable size.

47. What is the output of this C code?

```
#include
int main()
{
float x = 'a';
printf("%f", x);
return 0;
}
```

- a) 97.000000
- b) run time error
- c) a.0000000
- d) a

Ans:a

Explanation:Since the ASCII value of a is 97, the same is assigned to the float variable and printed.

48. What is the sizeof(char) in a 32-bit C compiler?

- a) 1 bit
- b) 2 bits
- c) 1 Byte
- d) 2 Bytes

Ans: c

49. What type of value does sizeof return?

- a) unsigned int
- b) short
- c) char

d) long

Ans: a

50. Which one is used during memory deallocation in C?

a) remove(p);

b) delete(p);

c) free(p);

d) terminate(p);

Ans: c