

C++ Institute

CLP-12-01

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Question: 1

You need to create a function that logs messages of varying lengths and types. Which feature would you use?

Response:

- A. Variable argument lists with <stdarg.h>
- B. Fixed arguments
- C. Macros with #define
- D. Dynamic memory allocation

Answer: A

Question: 2

You need to implement a loop where a condition is updated by an external signal. What should you ensure for the loop condition variable?

Response:

- A. Declare it as volatile
- B. Use const to protect it
- C. Declare it as a global variable
- D. Optimize it for faster execution

Answer: A

Question: 3

During a financial computation, you need consistent rounding. Which library provides correct rounding with arbitrary precision?

Response:

- A. GMP
- B. MPFR
- C. MPIR
- D. IEEE-754 functions

Answer: B

Question: 4

What is the result of a division by zero for a floating-point type in IEEE-754?

Response:

- A. Undefined behavior
- B. NaN
- C. Infinity (Inf)
- D. Zero (0)

Answer: C

Question: 5

A program needs to create a new file for writing, truncating its contents if it already exists. Which flags should be used with open()?

Response:

- A. O_WRONLY | O_CREAT
- B. O_WRONLY | O_CREAT | O_TRUNC
- C. O_RDWR | O_CREAT
- D. O_RDONLY | O_APPEND

Answer: B

Question: 6

Which elements are part of the C89 standard?

Response:

- A. Function prototypes
- B. Standard library support for I/O
- C. Support for the long long data type
- D. Comments using //
- E. Use of const and volatile

Answer: A,B,E

Question: 7

Which modes can be combined using bitwise OR for the open() system call?

Response:

- A. O_RDONLY
- B. O_WRONLY
- C. O_CREAT
- D. O_TRUNC
- E. O_APPEND

Answer: A,C,D,E

Question: 8

What are valid use cases for memcpy()?

Response:

- A. Copying memory blocks
- B. Duplicating strings
- C. Overlapping memory regions
- D. Allocating aligned memory
- E. Moving memory between regions

Answer: A,E

Question: 9

Select the valid arguments for the stat() system call.

Response:

- A. File path
- B. File descriptor
- C. struct stat pointer
- D. Buffer length
- E. File access mode

Answer: A,C

Question: 10

A server needs to handle multiple incoming client connections concurrently. Which mechanism should be used?

Response:

- A. Threads for each client connection
- B. Non-blocking sockets
- C. Multiplexing with select() or poll()
- D. All of the above

Answer: D

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