

C LANGUAGE – TRICK QUESTIONS & SAFE ANSWERS

LТИMindtree

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◆ □Pointer TRICK Questions

Q1. What is the size of a pointer?

TRICK: Depends on data type అని చాలా మంది చెబుతారు ✗

SAFE ANSWER:

Pointer size depends on system architecture (32-bit or 64-bit), not on data type.

Q2. Can we dereference a NULL pointer?

TRICK: Yes/No confusion

SAFE ANSWER:

No. Dereferencing a NULL pointer causes runtime error.

Q3. Is pointer arithmetic allowed?

TRICK: "Yes, we can add any value" ✗

SAFE ANSWER:

Yes, but it depends on data type size. Pointer increments move by data type size.

◆ □Array vs Pointer TRICK Questions

Q4. Is array name a pointer?

TRICK: Yes, array is pointer ✗

SAFE ANSWER:

Array name behaves like a pointer in expressions, but it is not a pointer.

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Q5. Can we assign one array to another?

TRICK: Yes, like pointer **X**

SAFE ANSWER:

No. Arrays cannot be assigned directly. We need loop or functions like memcpy.

◆ 3 Memory & malloc TRICK Questions

Q6. Does malloc initialize memory?

TRICK: Yes **X**

SAFE ANSWER:

No. malloc allocates memory but does not initialize it.

Q7. Difference between malloc and calloc?

SAFE ANSWER:

malloc allocates memory without initialization. calloc allocates and initializes memory to zero.

Q8. What happens if malloc fails?

TRICK: Program crashes **X**

SAFE ANSWER:

malloc returns NULL. We must check before using memory.

◆ 4 Function & Call TRICK Questions

Q9. Does C support call by reference?

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TRICK: Yes X

SAFE ANSWER:

C supports call by value only. Call by reference is achieved using pointers.

Q10. Can main() return void?

TRICK: Yes X

SAFE ANSWER:

Standard main should return int. Returning void is non-standard.

◆ 5 Loop & Control Flow TRICKS

Q11. What happens if while(1) is written?

TRICK: Error X

SAFE ANSWER:

It creates infinite loop until break condition is used.

Q12. Difference between break and continue?

SAFE ANSWER:

break exits loop. continue skips current iteration.

◆ 6 Structure & Union TRICKS

Q13. Which uses more memory – struct or union?

TRICK: Both same X

SAFE ANSWER:

Structure uses more memory because each member has separate storage.
Union shares memory.

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Q14. Can structure be passed to function?

SAFE ANSWER:

Yes, structures can be passed by value or by reference using pointers.

◆ 7 Storage Class TRICK Questions

Q15. What is default storage class of local variable?

TRICK: static ✗

SAFE ANSWER:

auto is default storage class for local variables.

Q16. static vs global variable?

SAFE ANSWER:

static limits scope to file. Global is accessible across files.

◆ 8 Preprocessor TRICK Questions

Q17. Difference between #define and const?

TRICK: Both same ✗

SAFE ANSWER:

#define is preprocessor macro. const is a variable with type checking.

Q18. What happens if header file is included twice?

SAFE ANSWER:

It causes redefinition error unless header guards are used.

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◆ Output-based TRICK Questions (Explain, don't guess)

Q19.

```
int i = 5;  
printf("%d %d", i++, ++i);
```

TRICK: Guess output 

SAFE ANSWER:

This leads to undefined behavior. Output is not predictable.

Q20.

```
int x;  
printf("%d", x);
```

SAFE ANSWER:

x contains garbage value because it is uninitialized.

◆ Interviewer FAVORITE TRICK

Q21. Are C programs secure?

SAFE ANSWER:

C is powerful but requires careful memory management. Security depends on how code is written.

● GOLDEN SAFE LINE (Students)

> "I am not sure about exact output, but this can cause undefined behavior."

This line never fails in interviews.
