Quiz - Paper 5

Instructions

- This quiz contains 25 multiple-choice questions.
- Select the best answer for each question.
- Time allowed: 30 minutes.

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1. What does printf("%d", 'A' + 1); output in C?

- A) A1
- B) 66
- C)B
- D) Compiler explodes

2. What's the result of sizeof(printf("Hello")) in C?

- A) 5 (because "Hello" has 5 letters)
- B) 0 (because printf doesn't return anything useful)
- C) 4 (if you're lucky)
- D) Depends on how much the compiler likes you today

3. What happens when you write int $arr[10] = \{0\}$; printf("%d", arr[99]);?

- A) It prints 0 because memory is generous.
- B) Segmentation fault, your computer cries.
- C) Undefined behavior, enjoy the mystery.
- D) Compiler glares but lets it slide.

4. What's the output of char *s = "Hello"; s[0] = 'Y'; printf("%s", s);?

- A) Yello
- B) Compiler error (string literals are sacred!)
- C) Undefined behavior, but let's pretend it's fine.
- D) It hacks into your neighbor's WiFi.

5. What happens if you free() a pointer twice?

- A) Compiler sends a strongly worded email.
- B) You summon the Segmentation Fault Demon.
- C) Your program runs fine (until it doesn't).
- D) The computer becomes self-aware.

6. What does "rubber duck debugging" mean?

- A) Talking to an actual rubber duck about your code.
- B) Explaining your problem out loud and magically fixing it.
- C) A new agile methodology no one understands.
- D) Debugging while taking a bath.

7. What's a "heisenbug"?

- A) A bug that disappears when you try to debug it.
- B) A bug that exists in two states: working and not working.
- C) Walter White's side hustle in programming.
- D) A quantum bit flipped a variable and broke your code.

8. What does "deprecated" actually mean?

- A) "We don't use it anymore, but good luck!"
- B) "It will break in a future update, surprise!"
- C) "Use this at your own risk. We warned you."
- D) All of the above.

9. What's the best way to center a div?

- A) Cry and use margin: auto.
- B) Stack Overflow it for the 500th time.
- C) Use flexbox and pretend you always knew it.
- D) Burn it all down and use tables.

10. What happens if you fork() too many times in C?

- A) Your computer begs for mercy.
- B) Your OS bans you.
- C) You create infinite child processes and regret everything.
- D) You become a father of many lost processes.

11. What's the real purpose of daily standup meetings?

- A) To keep managers entertained.
- B) To announce that you're "working on it".
- C) To remind yourself what you were supposed to do.
- D) All of the above.

12. When a developer says, "I'll fix it soon," what does that actually mean?

- A) "Maybe next sprint. Maybe never."
- B) "If nobody notices, it's not a bug."
- C) "I'll fix it right after my coffee break. (Lies)"
- D) All of the above.

13. How do developers estimate project timelines?

- A) By guessing wildly.
- B) By doubling the first guess and adding two months.
- C) By pretending they have a plan.
- D) By using ancient developer magic.

14. What's the most reliable way to debug code?

- A) Staring at it until something feels wrong.
- B) Print statements everywhere.
- C) Asking the intern to check it.
- D) Turning the computer off and on again.

15. What does "legacy code" actually mean?

- A) Code written so long ago, nobody dares touch it.
- B) Code that works, but nobody knows how.
- C) Code so terrifying, new hires run away.
- D) All of the above.

16. What's the worst thing you can say in a code review?

- A) "Why is this working?"
- B) "Let's rewrite everything in Rust."
- C) "This function has 500 lines, but it's fine."
- D) "I found a small bug... in every file."

17. What happens when you introduce a "temporary fix" in production?

- A) It becomes permanent.
- B) It breaks something unrelated.
- C) Future you cries.
- D) All of the above.

18. What's the best way to document your code?

- A) Write self-documenting code (good luck).
- B) Add a comment that says // don't ask everywhere.
- C) Explain it to your rubber duck.
- D) Hope your future self understands.

19. How do experienced developers solve impossible bugs?

- A) Sacrifice a coffee cup to the programming gods.
- B) Close the IDE and go for a walk.
- C) Convince themselves it's a feature, not a bug.
- D) All of the above.

20. What's the best debugging tool?

- A) printf() spam.
- B) A friend who actually reads the error message.
- C) The one tool you refuse to learn.
- D) "Have you tried turning it off and on again?"

21. What's the true meaning of "this shouldn't be happening" when debugging?

- A) "The universe is broken."
- B) "I forgot something, but I don't know what."
- C) "It works on my machine, so it's not my problem."
- D) All of the above.

22. What happens immediately after fixing a critical bug?

- A) Two new bugs appear.
- B) The fix breaks something else.
- C) You get a "quick" feature request.
- D) All of the above.

23. How can you identify the most experienced developer in the team?

- A) They ask the dumbest questions.
- B) They have the biggest mug of coffee.
- C) They sigh the loudest when looking at legacy code.
- D) They disappear when deadlines are near.

24. What's the developer equivalent of "the dog ate my homework"?

- A) "The deployment pipeline failed."
- B) "Works on my machine."
- C) "I thought someone else fixed it."
- D) "It's not a bug, it's a feature."

25. What's the best way to prevent documentation from going out of date?

- A) Never write any.
- B) Lock it in a vault and never touch it.
- C) Add a disclaimer: "May not be accurate, proceed at your own risk."
- D) Accept that it was outdated the moment you wrote it.