**Quiz - Paper 1**

**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 is the output of the following C code?**

```c

#include <stdio.h>

int main() {

int x = 5;

printf("%d", x++ + ++x);

return 0;

}

```

- A) 11

- B) 12

- C) Undefined behavior

- D) 10

**2. What does the following C code print?**

```c

#include <stdio.h>

int main() {

int a = 10, b = 20;

printf("%d", a + b ^2);

return 0;

}

```

- A) 28

- B) 60

- C) 40

- D) 30

**3. What is the output of the following C code?**

```c

#include <stdio.h>

int main() {

int x = 10;

if (x = 5) {

printf("True");

} else {

printf("False");

}

return 0;

}

```

- A) True

- B) False

- C) Compilation error

- D) Runtime error

**4. What is the output of the following C code?**

```c

#include <stdio.h>

int main() {

int i = 0;

for (; i < 5; i++) {

printf("%d ", i);

}

return 0;

}

```

- A) 0 1 2 3 4

- B) 1 2 3 4 5

- C) 0 1 2 3 4 5

- D) Infinite loop

**5. What is the output of the following C code?**

```c

#include <stdio.h>

int main() {

int arr[] = {1, 2, 3, 4, 5};

printf("%d", (arr + 2));

return 0;

}

```

- A) 1

- B) 2

- C) 3

- D) None of the above

**6. Translate "This code slaps fr no cap" into professional developer language.**

- A) This code is exceptionally well-written and effective, and I'm being sincere.

- B) This code needs significant review before deployment.

- C) This code has potential but requires refactoring.

- D) This code meets the minimum requirements but lacks optimization.

**7. What does "This PR is mid" mean in GitHub speak?**

- A) The pull request is mediocre/average

- B) The pull request is in the middle of being processed

- C) The pull request addresses middleware issues

- D) The pull request is halfway complete

**8. What's the meaning of "LGTM" in a code review?**

- A) Looks Good To Me

- B) Let's Get The Merge

- C) Long Gone Technical Mistake

- D) Let's Go To Meeting

**9. What does "touch grass" suggest a programmer should do?**

- A) Take a break from the computer and go outside

- B) Run the Unix touch command on a file named grass

- C) Use more eco-friendly programming practices

- D) Verify their code works on the Grasshopper platform

**10. If someone says your code is "based," they mean:**

- A) Your code is authentic, solid, and impressive

- B) Your code is derivative of someone else's work

- C) Your code relies too heavily on basic principles

- D) Your code needs to be rewritten from the base up

**11. Calculate the correlation between proximity to finals week and the cleanliness of the CS lab.**

- A) Strong negative correlation: cleanliness decreases as finals approach

- B) Strong positive correlation: cleanliness increases as finals approach

- C) No correlation: CS labs are consistently messy

- D) Parabolic relationship: cleanest mid-semester, messiest at beginning and end

**12. What's the probability of finding a working outlet in the library during finals week?**

- A) Approaches zero as the deadline approaches

- B) Directly proportional to your GPA

- C) Inversely proportional to the distance from the entrance

- D) Equal to the percentage of your laptop battery

**13. How many Red Bulls mathematically equals one night of actual sleep before a coding exam?**

- A) No amount can substitute - the answer tends to infinity

- B) Exactly 4.2 cans

- C) One can per hour of missed sleep

- D) The square root of your credit hours

**14. What's the name for the phenomenon where you explain your code problem to someone and immediately see the solution?**

- A) Rubber duck debugging

- B) Epiphany programming

- C) Socratic troubleshooting

- D) Vocalization clarity

**15. On a scale of 1-10, how acceptable is it to cry in the computer lab?**

- A) 2 - Only acceptable with headphones on

- B) 5 - Acceptable during finals week only

- C) 8 - A normal part of the CS experience

- D) 10 - The lab's ambient soundtrack

**16. If you compile code while Mercury is in retrograde, what unexpected error appears?**

- A) Error: Cosmic Interference - Try Again Later

- B) Warning: Variable Values May Change Unexpectedly During Planetary Misalignment

- C) Semicolons spontaneously transform into Greek question marks

- D) Your code works perfectly but your version control system loses all history

**17. What's the cosmic consequence of using light mode in your IDE after midnight?**

- A) Your soul is slowly drained with each character typed

- B) The IDE automatically switches to dark mode and judges you via passive-aggressive notifications

- C) Your code becomes visible to nocturnal debugging gremlins

- D) Your teammates silently question your life choices in the morning standup

**18. If a tree falls in a forest and no one is around to hear it, does it raise an exception?**

- A) Yes, but it's caught in a universal try-catch block

- B) No, it's logged to /dev/null

- C) It throws an UnobservedException Exception

- D) Only if the forest implements the proper listener interfaces

**19. When your code works on the first try, which supernatural entity should you thank?**

- A) The Ghost in the Machine

- B) The Programming Gods, with offerings of energy drinks

- C) Your future self who will eventually debug the hidden issues

- D) No one - it's actually a sign something is terribly wrong

**20. If you divide by zero in the Bermuda Triangle, what happens?**

- A) Your computer disappears, only to be found running Windows 98

- B) You create a quantum singularity that solves P=NP

- C) Your calculator displays the actual answer but no one believes you

- D) Your CPU temporarily achieves sentience and questions its existence

**21. What's the recommended exorcism ritual for a possessed printer?**

- A) Chanting "PC LOAD LETTER" three times while replacing the toner

- B) Performing the sacred Office Space ceremony with a baseball bat

- C) Drawing a pentagram of sticky notes with properly formatted print commands

- D) Threatening it with stories about the cloud and paperless offices

**22. What's the air-speed velocity of an unladen git push?**

- A) African or European repository?

- B) Directly proportional to the urgency of the deadline

- C) Inversely proportional to the size of the .gitignore file

- D) Fast enough to create temporal paradoxes in your commit history

**23. How many developers does it take to change a light bulb?**

- A) None, it's a hardware problem

- B) One to change it and nine to complain about how it was implemented

- C) Two — one to do it and one to explain why the previous approach was better

- D) It depends on whether the light bulb is properly documented

**24. What's the actual purpose of the "Any" key?**

- A) It's a legendary key that only appears to truly desperate users

- B) A practical joke by keyboard designers from the 1980s

- C) A metaphorical key representing the freedom of choice

- D) A psychological test to identify users who need additional training

**25. If you pour coffee directly into your laptop, will it run Java faster?**

- A) Yes, but only espresso for maximum efficiency

- B) Only if it's cold brew, hot coffee causes overheating

- C) No, laptops prefer energy drinks for processing power

- D) Temporarily yes, permanently no