

## Computer Science Questions and Answers Pdf

### Question: 1

A type of instruction that produce several lines of machine language code is a

Macro

### Question: 2

\_\_\_\_\_ is an input device that controls the movements of the cursor on the display screen.

Mouse

### Question: 3

The main function of the CPU is to perform arithmetic and logical operations on data taken from \_\_\_\_\_

Main memory

### Question: 4

\_\_\_\_\_ is a memory on which data can be written only once.

ROM

### Question: 5

Which language is directly understood by the computer without translation program?

# Computer Science Questions And Answers

**George A. Duckett**



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impact through innovation and problem solving Can you describe a challenging programming project you've worked on and how you overcame obstacles Example Answer One challenging programming project I worked on was developing a mobile app for real time navigation in a crowded urban environment The project involved complex algorithms for route optimization GPS tracking and user interface design One obstacle we encountered was optimizing the app's performance while minimizing battery usage on mobile devices To overcome this challenge we conducted extensive testing implemented caching mechanisms and optimized the code for efficiency We also leveraged asynchronous programming techniques to improve responsiveness and minimize resource consumption By collaborating closely with my team conducting thorough research and leveraging best practices in software engineering we were able to successfully overcome obstacles and deliver a high quality product How do you stay updated on the latest advancements in computer science Example Answer I stay updated on the latest advancements in computer science through a variety of channels including academic journals online courses professional conferences and industry publications I regularly read research papers and articles in areas of interest such as artificial intelligence machine learning and cybersecurity I also participate in online forums and discussion groups to stay informed about emerging trends and technologies Additionally I make a point to attend conferences workshops and webinars to network with experts in the field and learn from their insights and experiences By staying curious proactive and engaged in the computer science community I ensure that I remain current with the latest developments and innovations Can you explain the difference between object oriented programming and functional programming Example Answer Object oriented programming OOP and functional programming FP are two different paradigms for organizing and structuring code In OOP programs are organized around objects which encapsulate data and behaviour Objects interact with each other through methods and messages and inheritance and polymorphism are key concepts for code reuse and extensibility In contrast FP emphasizes functions as first class citizens treating them as data that can be passed as arguments returned from other functions and composed together FP encourages immutability pure functions and declarative programming style which can lead to more concise modular and composable code While OOP focuses on state and behaviour encapsulation FP focuses on transformations and compositions of data How do you approach debugging and troubleshooting when encountering a software issue Example Answer When encountering a software issue I follow a systematic approach to debugging and troubleshooting to identify the root cause and implement a solution I start by reproducing the issue and gathering as much information as possible including error messages log files and user feedback I then analyse the code and review the relevant documentation to understand the expected behaviour and potential sources of the problem Next I use debugging tools such as breakpoints logging statements and code profiling to trace the execution flow and pinpoint the exact location of the issue Once I've identified the cause of the problem I develop a plan to address it which may involve fixing bugs in the code optimizing performance or updating dependencies Throughout the process I communicate regularly with my team members

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