

Top Company Interview Questions – Data Types

Disclaimer: When compiling related questions from each lesson, note that not all of them will have answers explicitly mentioned in the material. For such questions, you are encouraged to use ChatGPT and other credible references to find and understand the answers.

1. What are data types in programming, and why are they necessary? (TCS – 2023)
2. Why do data types exist, and how do they help optimize memory usage in programs? (Infosys – 2022)
3. How do data types prevent memory wastage during variable declaration? (Wipro – 2023)
4. What are the different primitive data types commonly used in programming languages? (Capgemini – 2023)
5. What are derived and user-defined data types? Give examples. (TCS – 2024)
6. What is meant by a dynamic data type, and when is it useful? (Accenture – 2023)
7. How does type casting work, and why is it needed in programming? (Infosys – 2023)
8. What is type checking, and how does it ensure program safety and reliability? (Wipro – 2023)
9. What does it mean for a language to be strongly typed? Provide examples. (Google – 2023)
10. How do strongly typed languages help in avoiding runtime errors? (Microsoft – 2024)
11. How do weakly typed languages differ from strongly typed ones?
12. How does the operating system handle dynamic memory allocation during program execution? (Infosys – 2024)
13. What are signed and unsigned data types, and how do they differ in value representation? (Wipro – 2024)



14. Why is it important to choose the correct data type based on the need while programming? (TCS – 2023)
 15. How do data types vary across different programming languages like C, Python, and Java? (Google – 2024)
 16. What are the advantages of using dynamic typing in languages like Python? (Microsoft – 2024)
 17. What are the drawbacks of dynamic data typing in large-scale systems? (Accenture – 2024)
 18. How does static typing improve compiler optimization and program efficiency? (Infosys – 2023)
 19. How do programming languages internally map data types to specific memory sizes? (Amazon – 2023)
 20. Why do some languages support both implicit and explicit type casting? (Wipro – 2023)
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