# DATA STRUCTURES LAB VIVA QUESTIONS AND ANSWERS

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**What are the Viva questions in data structure?**

**What are the 5 key data structures?**

**How can one be well prepared to answer data structure algorithm questions in interviews?** By reviewing commonly asked questions for a data structure and algorithm role, you can prepare thorough, detailed responses that will impress.In this article, we will review 35 questions you may be asked during your interview, covering general and technical questions and in-depth questions about data structures and ...

**Why is DSA asked in an interview?** DSA questions help assess a candidate's understanding of time complexity, space complexity, and their ability to optimize algorithms for better performance. Evaluating a candidate's grasp of algorithmic efficiency ensures that they can design scalable solutions that can handle real-world challenges effectively.

**What are the 5 types of data in data structure?** A linear data structure can be an array, a stack, a linked list, or a queue. Non-linear data structures include trees and graphs.

**What are the 4 data structures?**

**What are the 4 characteristics of data structure?** There are three main characteristics of a data structure that developers and data experts consider: correctness, time complexity, and space complexity. Correctness refers to the accuracy and reliability of the data structure's implementation.

**How many types of algorithms are in data structure?** 11 different types of algorithms, including search, hashing and brute force.

**Is an array a data structure?** An array is a linear data structure that collects elements of the same data type and stores them in contiguous and adjacent memory locations. Arrays work on an index system starting from 0 to (n-1), where n is the size of the array.

**What are some DSA questions?**

**What are three types of structure data?** Three types of structured data include: 1) relational data, which is stored in tables with rows and columns, such as SQL databases; 2) hierarchical data, which follows a tree-like structure, where each data element has a parent and possibly multiple children, like XML documents; and 3) tabular data, which is stored in ...

**What are the four questions of data analysis?** The first of these is the four questions of data analysis, and the second is the two types of data analysis. The four questions of data analysis are the questions of description, probability, inference, and homogeneity.

**How do you solve data structure questions?**

**What is the engine specification of Hino j05e?** It has a displacement of 5.1 liters and is equipped with six cylinders. The bore of the engine measures 112 mm, while the stroke measures 130 mm.

**What is the engine capacity of the S05C?**

**What engine is in a Hino 500 Series?** All of them are powered with a heavy-duty Hino A05 Turbocharged Four-Cylinder Diesel engine that varies per Standard Cab model. The HINO 500 Series Standard Cab FC 1124 and FD 1124 models are equipped with an A05-TE engine (240hp/794Nm). Meanwhile, the FE 1424 Crew model is powered by an A05-TD engine (240hp/833Nm).

**What is the engine specs of the JO7E?** nomenclature "JO7E", displaces 6.4 litres and, in its highest power-and-torque rating, produces 191kW and a stump-pulling

794Nm. It is used across the recently upgraded 500 Series of medium-duty trucks. There are nine models in the 500 Series, including wide and standard cabs and a 4x4 model.

**Does Toyota make Hino engines?** Hino Motors is a large constituent of the Nikkei 225 on the Tokyo Stock Exchange. It is a subsidiary of Toyota Motor Corporation and one of 16 major companies of the Toyota Group.

**Does Hino use Cummins engines?**

**What is the spec of the 1hzj engine?** With a capacity of 4.2 litres (4164cc to be exact) the 1HZ uses a bore and stroke of 94mm and 100mm. The crank runs in seven main bearings. The engine is an inline six-cylinder with a single overhead camshaft (driven by a toothed rubber belt) and two valves per cylinder.

**What is the N04C engine?** The Hino 300 Series engine line-up starts with the N04C which is a 4,009cc inline four-cylinder engine with high pressure common-rail fuel injection and a variable nozzle turbocharger.

**What is the capacity of the K13C engine?** Hino Motors has developed the new K13C, a 12.9 liter six cylinder in-line, heavy duty diesel engine that provides superior fuel consumption, extra low noise and excellent driveability together with a lower exhaust emissions.

**Is Hino made by Ford?** That's because Hino Motors Ltd. is a proud part of the Toyota Group, currently under the Toyota Motor division. Hino Motors Ltd. became a part of the Toyota Group all the way back in 1967, when they were still known as the Hino Diesel Industry Co.

**What engine is in a Hino?** Hino Trucks' proprietary J08 engine is the industry's most-awarded medium-duty truck engine and our warranty backs up the talk.

**Is Hino a Japanese truck?** Since we first entered the field as a Japanese truck manufacturer in 1991, we have been in continuous succession. Team HINO I am honestly challenging spirit and technical skill.

**What is the spec of the 4JJ3 engine?** The 4JJ3-TCX is a derivative of the 4JJ1-TC, evolving from that proven platform to now produce 140kW at 3,600rpm and

450Nm at 1,600rpm through to 2,600rpm. That's a 10kW and 20Nm increase over the preceding engine outputs respectively.

**What is the spec of the G4FC engine?** 1.6 MPi (G4FC) The Gamma 1.6 MPI version features the same 77mm bore as the 1.4 (G4FA) but an increased 85.4mm stroke and makes 124 PS (91 kW; 122 hp) at 6,000 rpm and 15.9 kg?m (156 N?m; 115 lbf?ft) of torque at 4,200 rpm.

**What is the spec of the R460 engine?** Chung Yang GP460 aka R460 or CY460) is a 45.7cc (42mm bore, 33mm stroke) performance machine. It features a 4 transfer port 42mm cylinder, high-performance case pulsed Walbro HDA-223 carburetor (19mm bore, 15.08mm venturi, independent high and low jets) "hemi"-style combustion chamber, and full-circle crankshaft.

**Is Hino better than Isuzu?** These trucks are incredibly close on paper with both offering refinement, comfort, reliability and safety. The primary differences are their load carrying potential, which the Isuzu offers more of, and their engine power, which the Hino takes out.

**Where are Hino diesel engines made?** For four decades, Hino Motors, Ltd. has proudly manufactured the number one selling medium and heavy-duty truck in Japan. It also manufactures buses and diesel engines, Toyota's FJ Cruiser and Land Cruiser Prado. In the United States, Hino assembles medium-duty trucks at its Mineral Wells, West Virginia plant.

**What is the Hino diesel scandal?** Hino fell into trouble in March with the revelation that it had been falsifying emissions and fuel economy data dating back as far as 2003. The scandal snowballed this week when Hino said new problems were discovered in a light-duty engine, after earlier revelations in other power plants.

**Does Isuzu use Cummins?** Cummins Inc. and Japan-based truck manufacturer Isuzu Motors Limited are launching a 6.7L engine jointly developed by the two companies and designed for use in Isuzu's new medium-duty truck lineup. The companies unveiled the Isuzu DB6A six-cylinder turbo-diesel engine - derived from the Cummins B6.

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**Is Cummins a Ford engine?** For many years, Ford offered Cummins diesel engines in their medium-duty pickups. However, they remain an independent company supplying engine to both RAM trucks and commercial truck makers like: International- ProStar, 9900i, LoneStar, PayStar and HX models. Freightliner-Cascadia, Coronado, and 122SD models.

**Who builds Cummins engines?** Cummins Inc. is an American multinational corporation that designs, manufactures, and distributes engines, filtration, and power generation products.

**Is 1HZ a good engine?** The Toyota 1HZ engine holds a unique position in the automotive world. Although not renowned for its impressive power, this diesel engine has gained recognition for its reliability and durability.

**What is the difference between 1HZ and 1HDT?** In the direct injection 1HDT , the combustion happens in the piston. In the indirect injection 1HZ, combustion happens in the combustion chamber in the cylinder head. The 1HDT injectors have protruding nozzles and 1HZ injectors are flat, they are different also as pictured.

**What's better, 2h or 1HZ?** Hz has noticeably more punch than the slow 2h, as most folks say, faster uphill from a standing start for example. 3t tow capacity. The front grill is plastic on the hzj, instead of the steel grill on the hj75. Plenty of other things to do on my mates hz.

**What engine is in a Hino 300 Series?** Both of these trucks feature the same engines, but with some differences. The diesel is the 4.0-litre NO4C-WR engine that puts out 150hp (110kW) and 420Nm of torque. That runs through a six-speed manual or six-speed fully automatic transmission.

**What is the O3C engine?** TVSM patented Oil- Cooled Combustion Chamber (O3C) Technology with ram-air assist reduces the engine heat map by a remarkable 10? delivering high revving performance with uncompromised durability.

**Who made the J57 engine?** J57 production began in 1953. The same year, Pratt & Whitney was awarded America's highest aviation honor, the Collier Trophy, for the design and development of the J57. When production ended in 1970, Pratt & Whitney had built more than 21,000 engines.

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**How much horsepower does a JO5E engine have?** The Hino JO5E Series Engine produces 210 HP and 440 lb. -ft. torque - engineered for maximized medium duty truck performance and fuel economy.

**What engine does the Hino Ranger use?** The available engines were all diesels: the 4,009 cc (4.0 L) W04D four-cylinder, the 5,759 cc (5.8 L) W06D six-cylinder with , or the 6,728 cc (6.7 L) H07C for heavier-duty applications. Power outputs were 115 PS (85 kW) for the four-cylinder, 145 and 175 PS (107 and 129 kW) for the six-cylinder engines.

**What is the engine specs of the W115?**

**Is Hino Chinese or Japanese?** Since we first entered the field as a Japanese truck manufacturer in 1991, we have been in continuous succession.

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**Is Hino better than Fuso?** If grunt is your big thing, the Hino easily outclasses its Isuzu and Fuso competitors. The 4.0-litre turbo-diesel engine delivers 110kW, the same as the other two, but has 45-50Nm extra torque.

**Is Mitsubishi or Hino better?** When it comes to high engine capacity and greater towing capacity Hino Ranger wins hands down. The standard cab model comes in manual, automated manual or fully automatic transmissions.

**Does Toyota own Hino Motors?** Hino Motors Manufacturing U.S.A., Inc. Hino Motors Manufacturing U.S.A., Inc., a consolidated subsidiary of Toyota, assembles class 6 & 7 Hino brand trucks in Williamstown.

**What is the difference between W115 and W114?** W114 models featured six-cylinder engines and were marketed as the 230, 250, and 280. W115 models featured four-cylinder engines and were marketed as the 200, 220, 230, and 240, with diesel models carrying a D designation, as distinct from gasoline/petrol models.

**What is the top speed of the W115?**

**What is the power of the JCB engine?** Specification of JCB 3DX Super 3DX Super is one of the most popular Backhoe Loader in India. 3DX Super is known for its unmatched reliability and low maintenance, making it an ideal choice for various applications. The powerful 3DX Super engine delivers 74 HP and 400 NM, taking your work output to a whole new level.

**What is Junos SRX?** The Juniper SRX is a high-performance, low-latency next-generation firewall for distributed enterprise campuses and small and midsized data centers.

**What is the default security policy of Juniper SRX?** For SRX300, SRX320, SRX340, SRX345, SRX380, and SRX550M devices, a factory-default security policy is provided that: Allows all traffic from the trust zone to the untrust zone. Allows all

traffic between trusted zones, that is from the trust zone to intrazone trusted zones.

**What are three primary match criteria used in a Junos security policy?** The match criteria are based on a source IP address, destination IP address, and applications. The user identity firewall provides greater granularity by including an additional tuple, source-identity, as part of the policy statement. A set of actions to be performed in case of a match—permit, deny, or reject.

**Which two services does Juniper Connected security provide?** The Juniper Connected Security suite of products offers comprehensive network visibility, intelligence, and policy enforcement.

**Is a Junos certification worth it?** The Bottom Line Earning JNCIA-Junos certification is worth it because it is relatively straightforward to study for and opens up many possibilities for career advancement. If you fit into any of the outlined scenarios above, then this is the certification for you.

**What is SRX gateway?** SRX Series Services Gateways are next-generation firewalls based on a revolutionary architecture offering outstanding protection, performance, scalability, availability, and security service integration.

**Is the Juniper SRX a router and a firewall?** The Juniper Networks SRX4600 Firewall integrates flow-based security and routing services, including advanced security and threat mitigation and traditional stateful firewall security.

**Is Juniper SRX a good firewall?** SRX Series Firewalls are the industry's most effective against threats. They offer AI-driven protection, accurately predicting intrusions, malware, and other threats and stopping them before they stop your business.

**What are Juniper security devices?** Juniper Connected Security applies visibility, intelligence, and policy enforcement across every point of connection—from the edge to the data center—to help you operationalize security, adopt zero-trust architectures, and protect the business.

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**What is Junos used for?** Junos OS (also known as Juniper Junos, Junos and JUNOS) is a FreeBSD-based network operating system used in Juniper Networks routing, switching and security devices.

**What is SRX software?** SRX software provides a number of tools to allow a user to perform measurements based upon statistical analysis of the acquired localization data. Measurements include spatial distribution, cluster analysis, co-localization, resolution analysis, live cell analysis and generation of control data for modeling.

**The Double: Dostoevsky's Classic of Identity and Existentialism**

**Question 1: What is the main theme of "The Double"?** Answer: The novel explores the themes of identity, duality, and the psychological struggle between the conscious and unconscious mind. It follows the story of Golyadkin, a timid and insecure bureaucrat who is haunted by his own double, a more confident and assertive version of himself.

**Question 2: How does Dostoevsky portray the protagonist's descent into madness?** Answer: Dostoevsky masterfully depicts Golyadkin's mental breakdown through a series of increasingly bizarre and disturbing events. As the doppelgänger gains power, Golyadkin's world becomes fragmented, his grip on reality loosens, and he spirals into a state of paranoia and delusion.

**Question 3: What philosophical insights does "The Double" offer?** Answer: The novel raises profound questions about the nature of human identity and the fragility of the self. It explores the tension between the individual and society, the struggle between the rational and irrational, and the ultimately subjective experience of reality.

**Question 4: How does the novel's setting contribute to its psychological depth?** Answer: "The Double" is set in the claustrophobic and oppressive atmosphere of St. Petersburg. The damp, foggy streets, overcrowded bureaucracy,

and social conventions reflect the protagonist's inner turmoil, creating a suffocating environment that amplifies his psychological struggles.

**Question 5: What is the novel's lasting legacy?** Answer: "The Double" established Dostoevsky as a master of psychological realism. It has had a profound influence on literature, film, and philosophy, inspiring works by Kafka, Beckett, and Sartre. The novel continues to resonate with readers today, offering a timeless and unsettling exploration of the human condition.

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