

JAVA SPRING INTERVIEW QUESTIONS AND ANSWERS

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How to do in Java Spring interview questions?

How to prepare for a Java and Spring Boot interview?

What is IoC in Spring interview? IOC (Inversion of Control) ? Developers can easily achieve loose-coupling in Spring by using the Inversion of Control (IoC) technique. The objects provide their dependencies, rather than looking for, or creating dependent objects.

What is the difference between Spring and spring boot? Differences between Spring and Spring Boot Spring Framework is used widely for Java EE framework in order to build applications. Spring Boot Framework is used widely to develop REST APIs. The basic aim of it is to simplify the Java EE development, which makes developers more productive.

What is autowired in Spring? @Autowired is one of the core annotations in Spring, used for automatic dependency injection. In simpler terms, it allows Spring to automatically wire the required beans (dependencies) into your classes, eliminating the need for manual configuration.

What is the difference between 6 inject and autowired annotation? The behaviour of the @Autowired annotation is similar to the @Inject annotation. The only difference is that the @Autowired annotation is part of the Spring framework. This annotation has the same execution paths as the @Inject annotation, listed in order of precedence: Match by Type.

What is @SpringBootApplication annotation in Spring Boot? The SpringApplication annotation is a meta-annotation in Spring Boot that combines Configuration, EnableAutoConfiguration, and ComponentScan. It simplifies application setup by configuring Spring Beans, enabling auto-configuration, and scanning for components in the specified package.

What is the rest API in Spring Boot? In a Spring Boot Rest API, a model class represents the data entities you want to work with. For example, let's consider a Book class: In this example, the @Entity annotation indicates that this class is a JPA entity, and @Id specifies the primary key.

What is POM in Spring Boot? The pom.xml file is a crucial configuration file in a Maven-based Spring Boot project. It defines project-specific information, dependencies, plugins, and other build-related configurations. Understanding and effectively utilizing the pom.

What is a bean in Spring? Bean Definition Here's a definition of beans in the Spring Framework documentation: In Spring, the objects that form the backbone of your application and that are managed by the Spring IoC container are called beans. A bean is an object that is instantiated, assembled, and otherwise managed by a Spring IoC container.

Which Dependency Injection is better? While constructor and field injection have their use cases, constructor injection is generally considered the better choice due to its advantages. By using constructor injection, you can create more maintainable, testable, and robust applications.

What is Spring MVC and IoC? Spring MVC(Model-View-controller) is a java framework where we can build Web related softwares. Spring IOC(Inversion of control) is also called as dependency injection(DI) is a Main functionality of Spring MVC, Which helps to define the bean objects access Standards.

What are microservices in Spring Boot? What are microservices? Microservices are a modern approach to software whereby application code is delivered in small, manageable pieces, independent of others.

What is MVC in Spring Boot? Spring MVC is a framework for building web applications. It provides a model-view-controller architecture and a set of tools for handling request routing, view rendering, and more. Spring Boot is a framework for building production-ready, stand-alone, and opinionated applications based on the Spring framework.

When not to use Spring Boot? Although Spring Boot is ideal for working with microservices, many developers believe it is not appropriate for building large-scale applications.

What is @bean and @autowired? @Bean is just for the metadata definition to create the bean(equivalent to tag). @Autowired is to inject the dependency into a bean(equivalent to ref XML tag/attribute).

What is @RestController in Spring Boot? @RestController in Spring Boot is used to create RESTful web services. It simplifies the development process by eliminating the need for @ResponseBody on each method, automatically converting responses to JSON or XML, and providing easy integration with front-end applications.

What is @controller annotation? @Controller is a long-time Spring annotation that has always been used to define an entrance point for a Spring web application. In the context of Spring applications, handling incoming requests happens via a handler method in a class annotated with @Controller .

What can I use instead of autowired? @Autowired offers flexibility but may compromise code clarity and introduce runtime errors. Conversely, Constructor Injection, prioritizing simplicity and readability, is widely favored for clean coding practices, compile-time safety, and ease of testing.

What is the difference between @injectmock and @autowired? When both annotations are used together, @InjectMocks doesn't inject the mocked dependency automatically and the auto-wired BookService object is injected when the test starts. However, we can inject the mocked instance of DatabaseService later in our test by calling the MockitoAnnotations.

What is use of @autowire and @qualifier annotation? In summary, @Autowired is for automatic dependency injection, while @Qualifier is for specifying which exact

bean to inject when there are multiple beans of the same type. Choose the appropriate annotation based on your specific use case and the complexity of your Spring application's bean configuration.

How to learn Java Spring step by step?

How to write Java code in Spring Boot application?

How to explain my Java project in interview?

How to crack Java interview questions?

What is Maven in Spring Boot? The Spring Boot Maven Plugin provides Spring Boot support in Apache Maven. It allows you to package executable jar or war archives, run Spring Boot applications, generate build information and start your Spring Boot application prior to running integration tests. To use it, you must use Maven 3.6.

What are Spring microservices? Microservices architecture is a style that structures an application as a collection of small, independent services, modeled around a business domain. The Spring Framework provides strong support for building microservices through the Spring Boot and Spring Cloud projects.

Is Spring Boot a framework? Spring Boot is an open-source, microservice-based Java web framework offered by Spring, particularly useful for software engineers developing web apps and microservices.

How to write REST API in Java Spring?

What is @SpringBootApplication annotation? The SpringBootApplication annotation is a meta-annotation in Spring Boot that combines Configuration, EnableAutoConfiguration, and ComponentScan. It simplifies application setup by configuring Spring Beans, enabling auto-configuration, and scanning for components in the specified package.

What are microservices in Java? Microservices are an architectural approach to building applications that are distributed and loosely coupled so that a change in one microservice won't break the entire app. This lets development teams rapidly build

new application components to meet changing business needs.

How do you introduce yourself in a Java interview?

What is Java best answer for interview? What is Java? Java is a high-level, object-oriented programming language that was developed by Sun Microsystems in 1995. It is platform-independent, meaning that programs written in Java can run on any platform that has a Java Virtual Machine (JVM) installed.

How to explain your spring boot project in an interview? If asked, explain that Spring Boot is an open-source, Java-based Spring framework that's commonly used to create standalone applications that don't rely on an external web server. Bonus points if you mention that it's a popular choice for rapid application development (RAD) and building microservices.

What is the hardest question in Java?

How to prepare for a Java interview in 2 days?

How to ace a Java interview? To effectively prepare for a Java interview, focus on revisiting and reinforcing essential object-oriented programming (OOP) principles like inheritance, polymorphism, encapsulation, and abstraction. A solid grasp of these concepts is fundamental for success in any Java interview.

Stereograms: A Window into Depth and Illusion

What are stereograms? Stereograms are optical illusions that create the perception of depth when viewed with appropriate techniques. They consist of two slightly offset images that, when viewed correctly, create a three-dimensional effect.

How do you view stereograms? There are two main methods for viewing stereograms:

- **Direct viewing:** Focus your eyes at a point beyond the screen. As you do so, two images will appear, one slightly to the left and one to the right. Continue staring at the distance point until the two images merge, creating a 3D effect.

- **Cross-eye viewing:** Cover one eye and focus on the image furthest to the opposite side. For example, if you cover your left eye, focus on the right image. You will see two images, one slightly offset to the right. Cross your eyes to superimpose the two images and create the depth effect.

What are the different types of stereograms? There are several types of stereograms, including:

- **Autostereograms:** These stereograms can be viewed directly without the need for special glasses or equipment.
- **Randot stereograms:** These stereograms consist of randomly arranged colored dots.
- **Stereoscopic photography:** These photographs create a 3D effect when viewed through a stereoscope.

What are the benefits of viewing stereograms? Viewing stereograms can have several benefits, such as:

- **Eye training:** Stereoscopic vision, which is required to view stereograms, helps improve depth perception.
- **Relaxation:** The act of focusing on distant objects while viewing stereograms can be relaxing.
- **Cognitive stimulation:** Creating and solving stereograms stimulates creativity and problem-solving abilities.

Can anyone view stereograms? Most people can view stereograms with practice, although some may find it more difficult than others. If you have difficulty viewing stereograms, try different viewing techniques or seek guidance from an optometrist.

The Power of Less: The Fine Art of Limiting Yourself to the Essential in Business and Life

In a world inundated with distractions, the concept of "less is more" has gained immense traction. The power of less lies in its ability to simplify, streamline, and enhance focus, both in business and personal life. Here's a Q&A exploration to delve into the benefits of embracing the art of limitation:

Q: Why limit yourself to the essential?

A: Limiting oneself to the essential eliminates distractions, clarifies priorities, and reduces overwhelm. By concentrating on what truly matters, we free up cognitive space and resources, enhancing our productivity and decision-making abilities.

Q: How does this apply to business?

A: In business, the power of less translates into streamlined operations, improved efficiency, and enhanced customer satisfaction. By identifying and eliminating unnecessary processes, reducing product lines, or simplifying supply chains, businesses can achieve greater agility, focus, and profitability.

Q: How can we cultivate the art of limitation in our personal lives?

A: Cultivating the art of limitation in personal life involves practicing mindfulness and decluttering our physical and mental spaces. Eliminate distractions like unnecessary possessions, digital clutter, and overcommitments. By embracing minimalism and focusing on what brings us joy and fulfillment, we experience reduced stress, improved mental well-being, and a sense of tranquility.

Q: What are some key principles of the power of less?

A: Embrace simplicity, eliminate distractions, focus on priorities, and learn to say no to non-essential commitments. By intentionally creating space and clarity, we empower ourselves to make better decisions and live more fulfilling lives.

Q: How can we overcome the fear of missing out (FOMO)?

A: Overcoming FOMO requires a shift in perspective. Focus on the present moment and appreciate the opportunities you have while recognizing that not all experiences are worth pursuing. By embracing the power of less, we liberate ourselves from the pressure to constantly be engaged and create a life of intention and purpose.

Is the Oxford Collocation Dictionary free? The Oxford Collocations Dictionary app can be accessed via the free Oxford Advanced Learner's Dictionary app. After purchase, your personal access code to the app will be emailed to you.

What is the best dictionary for collocations? Oxford dictionary A completely new type of dictionary with word collocation that helps students and advanced learners effectively study, write and speak natural-sounding English.

Is there a collocation dictionary? The Oxford Collocations Dictionary shows which words work together. It helps students express their ideas naturally and convincingly and is particularly useful for academic and report writing. With this dictionary students learn the most important collocations they need to know.

What is the best collocation website? Oxford Collocations Dictionary (OR freecollocation.com) Oxford boasts over 150,000 collocations and 9,000 headwords and is useful for writers and learners alike. Providing collocations for British and American English, each entry is organized around a word and its collocates, grouped by part of speech.

How can I access Oxford Dictionary for free? Via a library This means you can access the dictionary, free, via your local library. Please speak to your librarian to find out whether your library subscribes. Most libraries offer remote access.

Which is better Collins or Oxford Dictionary? The attraction of the Oxford Dictionary of English is that it has a good selection of proper nouns, though not as many as the old Collins, and has a clearer presentation of words and phrases than Chambers.

What is the easiest way to learn collocations? Read extensively: Reading is one of the best ways to learn collocations. Read a variety of materials, such as books, articles, and news reports, paying attention to the way words are used together in phrases and expressions.

What are the 7 types of collocation? There are seven different types of collocations in English: noun + noun, adjective + noun, noun + verb, verb + noun, adverb + adjective, verb + adverb, and verb + preposition or prepositional phrase (phrasal verb). Below are some resources to help you with these combinations.

What is the most common collocation?

What is a collocation Oxford dictionary? Collocation is the way words combine in a language to produce natural-sounding speech and writing. For example, in English you say strong wind but heavy rain.

What is a collocation Merriam Webster? : the act or result of placing or arranging together. the collocation of atoms. specifically : a noticeable arrangement or conjoining of linguistic elements (such as words) "To save time" and "make the bed" are common collocations.

What is collocation learners dictionary? Meaning of collocation – Learner's Dictionary a word or phrase that sounds natural and correct when it is used with another word or phrase: In the phrase 'a hard frost', 'hard' is a collocation of 'frost', and 'strong' would not sound natural.

Where can I find English collocations? You can find information on collocations in any good learner's dictionary. And you can also find specialized dictionaries of collocations.

What is a collocation in free dictionary? Collocation refers to how words go together or form fixed relationships.

How can I improve my English collocation? There are several ways to learn collocations in English. One of the most effective ways is to read and listen to English as much as possible. By exposing yourself to the language, you'll start to notice common phrases and how they're used. Another way to learn collocations is to use an online collocation dictionary.

What happened to Oxford Dictionary online? Lexico, Oxford's free online dictionary, had closed on 26 Aug 2022.

What is the best dictionary website for students? Merriam-Webster Student Dictionary.

What is the difference between Oxford Advanced Learner's dictionary and Oxford English Dictionary? ODE is the flagship native-speaker desk dictionary from Oxford Dictionaries for British English. It has a much longer headword list than OALD and definitions written to a much higher level; also fewer, shorter examples.

OALD is what it sounds like, an English dictionary for advanced learners.

Which Oxford Dictionary is best for students? The Oxford Student's Dictionary is for intermediate to advanced learners of English. It has a particular focus on curricular vocabulary and includes the words you need to study other subjects such as Art, Computing, Science, Geography, History, Literature, Maths, Sport and much more.

Which version of Oxford Dictionary is best? The Oxford advanced learner's dictionary is the world's bestselling advanced level dictionary for learners of English.

Which is better, Oxford Dictionary or Merriam-Webster? Merriam-Webster is “synchronic,” meaning it concentrates on current, active vocabulary. The OED is “diachronic,” written from a historical perspective. The two philosophies are complementary, not opposed, but that often means a word has to be in use longer to make the OED than it might take to get into M-W.

How to teach collocations to students? Start with a classic 'Mix and Match' game. Prepare a set of cards, with half containing the first word of a collocation and the other half with the second word. Spread the cards out, and have students find the pairs that belong together. This can be done as a timed activity to add a competitive edge.

What are the common mistakes with collocations? Here are some common lexical collocation errors: small fortune NOT little fortune, take a walk NOT make a walk, inflict pain NOT create pain, make an appointment NOT take an appointment, make a mistake NOT do a mistake.

What are the 10 collocations?

Is fish and chips a collocation? Some examples of collocations are; “sit up”, “place value”, “draw a line”, “fish and chips”, “shoes and socks”, “fast food”, and “a quick meal”. Knowledge of collocations helps ESOL students' language sound more fluid and natural.

What is an example of a strong collocation? A strong collocation is comprised of at least one word that doesn't pair well with others. For example, blonde hair is a strong collocation because blonde doesn't pair with many other English words.

Collocations can be difficult to teach and to learn.

What are the rules for collocations? Collocations can be made up of any kinds of words such as verbs, nouns, adverbs and adjectives. There are no rules for collocations in English Language, they are just combinations of words that we can become familiar with and then use correctly.

[*stereograms, the power of less the fine art of limiting yourself to essential in business and in life 1st edit, oxford collocations dictionary for students of english*](#)

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