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Important Interview Questions

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Java Interview Questions

If you are preparing for a Java-based interview, it's a good idea to go through Java Interview Questions. I have written a lot of articles to cover interview questions in different areas – ranging from Core Java, Java EE to popular frameworks.

Java Interview Questions FAQs

Let's go through some common questions before you read below articles that focus on specific areas.

1. Which is the best site for Java Interview Questions?

There are tons of websites where you will find java interview questions. So how do you know which ones you should read?

The answer is really simple – read the ones that cover the latest features. Also, read the articles where you can post comments. Most of the times, the author makes some mistakes or confusing statements that gets corrected through user feedback coming through comments.

2. What are the popular topics for Java Interview?

Some of the popular topics for Java interview are:

- OOPS Concepts
- Java String
- Collections Framework
- Multithreading
- Generics
- Exception Handling
- Stream API
- Lambda Expressions

- Latest Release Features
- Java EE Frameworks – Spring, Hibernate etc.

3. What is Java used for?

Java is used everywhere. You will find java-based applications in standalone programs, web applications, IoT devices, and web services. We can create distributed enterprise applications using Java EE frameworks.

4. What is Core Java?

Java SE is also called Core Java. It is the set of libraries that are part of standard java installation. For example, the Collections framework is part of Core Java whereas Servlet/JSP is part of Java Enterprise Edition.

5. What are the advanced Java Topics?

Some of the advanced java concepts are:

- Heap and Stack Memory
- Garbage Collection
- Reflection API
- Thread Deadlock
- Java ClassLoader
- Java Logging API
- Internationalization in Java
- Java Module System

6. **Is Java a dying language?**

Java is still one of the most popular programming languages. It's still the first choice for enterprise applications where security is the utmost priority. There are tons of free open source resources available to help you in Java programming, so I am not worried that Java is Dying at all.

7. What is difference between JavaScript and Java?

Some of the key differences between JavaScript and Java are:

- Java is Object Oriented Programming Language whereas JavaScript is an Object Oriented Scripting language.
- Java code runs in a virtual machine or browser (Applets) where JavaScript code runs on browser.
- Java source code needs to be compiled to byte code so that JVM can understand and execute it. JavaScript code is all text based and doesn't need to be compiled.
- JavaScript code is used with web applications to perform browser specific tasks, validations etc. Whereas Java code can be used to create standalone utility apps, web applications, web services etc.
- JavaScript is lightweight whereas Java needs to be installed and configured to run.

8. Which is better – Java or Python?

It's like comparing Apple to Oranges. Both Java and Python are very popular programming languages. It depends on the project requirement whether you want to use Java or Python or sometimes both together.

Here are some inputs based on my personal experience working with both Java and Python for a long time.

- If we have to write applications for web services or web applications, Java is preferred over Python. Java EE APIs and frameworks are robust and secure whereas Python frameworks such as Flask and Django are still evolving.
- If we have to create a script for utility application, Python is preferred because it's more lightweight than Java.
- For Data Science, Machine Learning, Artificial Intelligence, Python is preferred because most of the popular APIs in these are based on Python.

9. Who Created Java?

Java was first created by **James Gosling** at Sun Microsystems. The first public version was released in 1996.

10. What is the latest version of Java?

Java 12 is the latest version, released on March 19, 2019. Now new java versions are released every 6 month, so you can expect Java 13 to be released sometime in September 2019.

Java Interview Questions

1. # Core Java Interview Questions and Answers

   Core Java is the starting point of any Java interview. Whether you are fresher or experienced in Java, having a strong grip on Core Java is very important to clear the interview. This article lists down some of the commonly asked core java interview questions with answers.

2. # Java 8 Interview Questions

   Java 8 was a major release with many new features such as Lambdas, Functional interfaces, Streams, Date Time API, etc. This is a must-have if you are going to any java interview because it's always good to be aware of the latest language changes.
   I recently wrote another article as part-2 of java 8 interview questions, please go through this too.

3. # Java Collections Interview Questions and Answers

   Collections are core components of Java programming language and hence widely used in interview questions. The post contains 40 questions on java collections to make sure all the topics are covered and help you in impressing your interviewer.

I also recommend to check out **java collections** tutorial to have a deep knowledge of Collections in java.

4. Java String Interview Questions and Answers

Everybody uses String and usually, java interview starts with some tricky questions on Java String. This post contains 21 questions with detailed answers for String in java.

5. Java Multi-Threading and Concurrency Interview Questions

Multithreading and Concurrency is a hot topic in java interviews. Whether you are new to Java or an expert, its good to have good knowledge on Threads in java and this post covers 30+ interview questions for Java Threads.

I also recommend you to read **Java Thread Tutorial** to gain good knowledge on Threads.

6. Java Exception Handling Interview Questions

Exception Handling is one of the tricky areas and Java provides a robust and object-oriented approach for exception handling. There are Exception, Error, and Throwable at the root of Exception Handling. I have seen so many guys who are

confused in checked, un-checked and runtime exceptions. Here you will go through a list of 15 questions entirely related to Exception Handling in Java.

7. Difference between JDK, JRE and JVM

You should know about the Java virtual machine, runtime environment, and Java compiler. A post dedicated to explain these and list out their differences.

8. Java Classloaders

If you consider yourself an expert in java, be prepared to face some questions on Java Classloader. A comprehensive post providing a detailed explanation of different types of java classloaders, how and when we should write our own classloaders with example programs.

9. Difference between Abstract Class and Interface

Abstract classes and interfaces are used in java for providing contract but what is the difference between them and when should we use interface over abstract class and vice versa is a great design question and asked a lot in java interviews. This post provides all the differences between abstract class and interface and when should we use interface over abstract class and vice versa. The post also explains how to use abstract class and interface both in conjunction to create a flexible

design for providing a contract for subclasses. I also recommend to read java abstract class and interface in java tutorials.

10. Why Java Doesn't support multiple inheritance and Composition vs Inheritance

One of the most asked questions is why java doesn't support multiple inheritances and why should we prefer composition over inheritance. A post with a detailed explanation of multiple inheritance and issues with the inheritance that make composition a better approach.

11. Java Programming Interview Questions

Some tricky questions to test your programming skills, also check out **java tricky code snippets**.

12. Java 7 Catch Block

Java 7 catch block has been improved to catch multiple exceptions in a single block, a good improvement for making our catch block code small when we needed to catch a lot of exceptions.

13. Java Heap Memory vs Stack Memory

JVM runtime memory is divided into heap memory and stack memory. An important article explaining the difference between Heap and Stack memory through program. I recently published a YouTube video too, make sure to watch that for better understanding.

14. ## Java is Pass By Value or Pass by Reference

This is one of the most confusing questions about the Java programming language. Some say it's pass by value and somewhere you will read that it's pass by reference. Then again behavior changes for primitive types or Objects parameters? Read this out to clear this confusion once and for all. This is one of the favorite question asked by java interviewers.

Java EE Interview Questions

15. ## JDBC Interview Questions and Answers

If you are working on Enterprise applications, I am sure that JDBC API is a part of it. JDBC API provides database connectivity for relational databases, such as MySQL and Oracle.

This article goes through a collection of 40+ interview questions related to JDBC API from basic Connection to DataSource to Connection Pooling. It will help you in interviews for questions related to JDBC API and how to effectively use it.

If you are new to JDBC or you have a lot of experience, I would still suggest you go through JDBC Tutorial to make sure you have covered all the core parts of it.

16. Servlet Interview Questions with Answers

Servlets are one of the hot topics of Java Enterprise Edition interview questions. This post contains a list of 50 servlet interview questions with answers in detail. A must have bookmarked post because I will keep on adding more questions in the future.

17. JSP Interview Questions and Answers

JSP is an integral part of Java EE and if you are giving an interview for a web developer, then having good knowledge of JSP technology is very important. This post contains a list of 35 JSP interview questions with answers. Please make sure to bookmark it because I will be kept on adding more to the list in the future.

18. Struts Interview Questions and Answers

Struts2 is one of the modern Java Web Application framework. This article contains a list of 30 questions that covers most of the important components of Struts2 framework.

19. Spring Interview Questions and Answers

Spring Framework is the most widely used Java EE framework. It's built on core principles of "Dependency Injection" and "Aspect-Oriented Programming". This post contains more than 45 questions related to Spring Framework, Dependency Injection, Spring AOP, Spring JDBC, Spring MVC Framework and some common tasks such as file uploading, localization, etc. A good post to go through before any Java EE interview.

20. Web Services Interview Questions

Web services are very popular these days because they are language and platform independent. It's easy to create SOAP and REST based web services. This post will help you learn about web services and related interview questions. Then there are questions with detailed answers for Java Web Services.

21. ## JSF Interview Questions

More than 50 questions on JSF-2 with detailed answers, go through them as a refresher on JSF framework.

22. ## Hibernate Interview Questions and Answers

Hibernate is the best java based ORM tool in the market. It's used a lot in most of the enterprise applications to overcome the shortcomings of JDBC. One of the best part with hibernate is the flexibility of configuration using XML, JPA annotations as well as through code. So it's always a plus point to have Hibernate in your resume. Whether you are experienced with hibernate or newbie, these questions will help you in an interview and impress your interviewer.

23. ## Scala Interview Questions

Scala is famous programming language that provides functional programming in Java. I have written three successive posts too that you can go though for scala interview preparation.

- Scala intermediate interview questions
- Scala intermediate and advanced interview questions
- Scala advanced interview questions

24. **Common Job Interview Questions**

For clearing an interview, only technical knowledge is not enough. You will have to go through common job interview questions such as your last company experience, why you are looking for change etc. This is a post with 40 job interview questions that are asked in almost all the interviews.
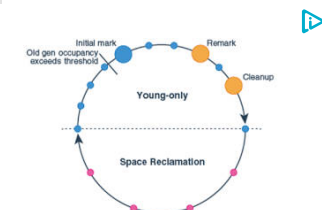

RESTful Web Services Interview Questions

Java Collections Interview Questions and Answers

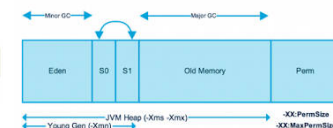
Core Java Interview Questions and Answers

Garbage Collection in Java

Java read file line by line

Spring Boot Interview Questions

Java (JVM) Memory Model - Memory Management in Java

Java Strea

Comments

Ajinkya says

OCTOBER 16, 2018 AT 7:08 AM

For(;;)

These is infinite loop

All thing are optional but we put 1 or 0 or any negative value at

condition like for (;1;)

Then what will be output for any condition. It will be true or false.

Reply

Ketan says

OCTOBER 6, 2017 AT 6:08 PM

looks like link is broken / page not found for Restful Interview

Questions link

Reply

Pankaj says

OCTOBER 8, 2017 AT 4:21 AM

Which URL you are pointing out? Everything seems working

fine for me.

Reply

Nitin says

SEPTEMBER 25, 2017 AT 7:53 AM

Very useful in cracking the interview.

Thanks for sharing.

Reply

milindu says

MAY 19, 2016 AT 2:00 AM

very much appreciate you time spent on publishing this blog.!

Reply

jijo says

FEBRUARY 26, 2016 AT 8:32 AM

Thank you for taking time in it and providing us.

Reply

rohit says

FEBRUARY 17, 2016 AT 5:01 PM

that makes life easy 🙂

thanks for consolidating it.

Reply

ranjeet yadav says

JANUARY 18, 2016 AT 9:37 AM

very much thankful for impo.question of interviews plz provide all on my mail id as well,thanks in advance aswell.

Reply

chandiprasad says

DECEMBER 12, 2015 AT 12:15 AM

Thank you very much Pankaj for sharing such good collection of questions on wide variety of topics of java ,Your Book on Design patterns was really awesome.

Reply

Pankaj says

DECEMBER 12, 2015 AT 11:17 PM

Thanks Chandiprasad, you made my day. Please subscribe to our newsletter too where we share exclusive tips and free Books.

Reply

Ritu Rh says
NOVEMBER 1, 2015 AT 10:27 PM
Please help me to get a java code to get number pin which is obtained by concatenating lengths of each word of the string .
for example: number pin for "wipro Technologies" is 512
wipro="5″
technologies="12″
Reply

Anjani Kumar Pathak says
NOVEMBER 20, 2015 AT 4:44 AM
String s="Wipro Technologie";
String[] word=s.split("\\s+");
String pincode=new String();
for(String s1:word){
pincode+=s1.length();
}
System.out.println(pincode);
Reply

Jt says
SEPTEMBER 22, 2015 AT 11:39 PM

Can you please shade some light on the use/need of copy
constructor.

Reply

sandeep singh rawat says

OCTOBER 26, 2015 AT 6:26 PM

the concept of copy constructor is supported in java. But
unlike C++ java doesnot support the cocept of default copy
constructor.

Need of copy constructor:

copy constructor is required when you want memory to be
allocated for both the objects a and b belonging to the same
class T.

e.g

let us suppose a class T

a and b are its objects

a and b are then references created on stack.

and there will be some memory allocated on heap

Now, without copy constructor both will refer to same
memory location.

so to allocate the memory for both a and be seprately we
have its solution as copy constructor.

Thank u.

Reply

Praveenkumar kodge says

AUGUST 12, 2015 AT 12:41 AM

answer:

A is a superclass it has subclass like B and C…..

ur adding an superclass to an collection class, subclass of A will added into collation.

u don't want the subclass of A to add in collection then u please remove the inheritance between then….

Reply

Paramesh says

JUNE 23, 2015 AT 9:40 AM

Hi,

Can any please tell me the solution for the below question:

I have a super class named A,and few sub classes named B,C.The both sub classes B and C extends A.

I want to add the super class object in the collection(like arraylist) not sub class objects.

Which means the collection should allow only super class object not sub class object.

Reply

Sonali says

MAY 23, 2015 AT 4:05 PM

Very good collection of question!!!

Reply

PA says

APRIL 3, 2015 AT 3:13 AM

Many Thanks. I'm not sure where to make a request to you. I can see you've covered tutorials for all latest technology, but I see one more important is missing which is JPA (Java Persistent API). May I request you to please create tutorials for same?

Reply

Pankaj says

APRIL 3, 2015 AT 4:39 AM

JPA is specification and Hibernate is the best implementation of that. I have covered Hibernate and if you read any of my Hibernate posts, you will notice that I am using JPA annotations only. I hope you got the point.

Reply

test says

APRIL 2, 2015 AT 12:55 PM

Hello,

Could you please try to create a "Spring Security OAuth2" project with Twitter, Google and Facebook?

Thank you.

Reply

latha says

MARCH 11, 2015 AT 8:12 AM

Nice info..very useful.plz post question on jax-ws webservices

Reply

Pramod says

FEBRUARY 15, 2015 AT 10:11 PM

Very nice collection of interview questions….

Reply

thrinadh says

OCTOBER 20, 2015 AT 1:38 AM

quaisens r very nice it will be more usi full for java interviews wen they ask q r very tuff and q r very importent to reed

Reply

Mayank Shrivasatava says

SEPTEMBER 9, 2014 AT 1:34 AM

How to call Informatica workflow from Java

Reply

mohan says

NOVEMBER 19, 2014 AT 6:43 AM

uffffffff

Reply

amit sen says

AUGUST 5, 2014 AT 11:56 AM

Thanks for helping …..

Reply

Alexander says

AUGUST 5, 2014 AT 12:57 AM

You right simpe, short and very helpful articles.

If you don't mind please add questions about JMS.

thank you

Reply

Pankaj says

AUGUST 5, 2014 AT 2:20 AM

Thanks, I will post about it in near future.

Reply

sampath kumar madala says

AUGUST 17, 2014 AT 5:59 PM

Hi pankaj,

May i know your opinion on java certifications.

Reply

Pankaj says

AUGUST 17, 2014 AT 10:39 PM

It's good to have.

Reply

venky says

AUGUST 1, 2014 AT 10:07 AM

interview questions

1.how class get locks

2.how to get top first 4 repeated words in file

Reply

Hemanth kumar says

JULY 23, 2014 AT 8:00 AM

Thank q pankaj its very useful for my interview panel .And some more question on Hybernate and Struts,Servlets

Reply

Rahul says

JUNE 23, 2014 AT 7:56 PM

Please add hibernate interview questions also

Reply

Lena says

JUNE 7, 2014 AT 7:41 AM

Great thank you for the articles

Reply

Vaibhav says

JUNE 1, 2014 AT 11:47 AM

hi pankaj,

plz upload tutorials for polymorphism too..

Reply

Chandrshekar reddy says

MAY 22, 2014 AT 12:44 AM

please provide JSF and ADF question and documents

Reply

Deepanshu says

APRIL 29, 2014 AT 10:07 PM

This blog is very good. You have covered all the basic concept of java with proper explanation and example.

And also you have provided the Interview questions on all topics which help the job seeker to get the job as well as his basic concepts also get build.

Reply

manju says
APRIL 26, 2014 AT 2:48 AM
thanks ton please add struts 1.x interview qstns
Reply

Pankaj says
APRIL 26, 2014 AT 9:50 AM
Struts 1.x is deprecated and EOL a long time ago, I would suggest you to not waste time on that.
I believe it might be used in some legacy applications only now.
Reply

Rajesh says
MARCH 23, 2014 AT 4:39 PM
Good effort and easy understand each questions.Please post spring and hibernate tutorial and interview Q&A
Reply

Mustafa says

MARCH 20, 2014 AT 9:46 AM

Thanks a ton. Desperately waiting for similar posts for Hibernate and Springs ☺

Reply

Melwin Dmello says

FEBRUARY 19, 2014 AT 8:50 PM

Thanks a ton. This is very helpful.

Reply

Ashok Dhulipalla says

JANUARY 28, 2014 AT 10:29 AM

This blog helps me a lot in interview preparations . Thanks

Reply

Rahul Gupta says

JANUARY 9, 2014 AT 2:36 PM

Nice blog, please add some more question on spring, spring security & hibernate. This interview question really helpful for the

interview preparation. Keep going on.

Reply

vasanth says

JANUARY 6, 2014 AT 6:48 AM

Thank u sir,for providing this type of clear description to each concept.i am not seen like this in further.

Reply

Kiran says

DECEMBER 21, 2013 AT 11:39 AM

Thank you for sharing this….:)

Helpful to us

Reply

Mona says

DECEMBER 12, 2013 AT 2:30 AM

What a great idea of posting potential questions!!! Thanks.

Reply

supriya says

APRIL 25, 2014 AT 11:24 AM

nice blog,,,,it's very helpful for me tqz alot

Reply

tasmiya mullani says

NOVEMBER 25, 2013 AT 6:58 AM

Hi,

will you please tell me how to impliment breadcrumb using jquery or javascript.

(Anusandhan.net is a sample site where top categories shown i want structure like that)

Reply

Snehal Masne says

SEPTEMBER 24, 2013 AT 6:43 PM

Wonderful. Thanks for this! 🙂

Reply

sidram says

AUGUST 1, 2013 AT 1:12 AM

How to call java methods in oracle methods?

Reply

Leave a Reply

Your email address will not be published. Required fields are marked
*

Comment

Name *

Email *

POST COMMENT