Java - New in Java 10

Java - New in Java 10 - Interview Questions

Java 10, released six months after Java 9, is the first JDK release that conforms to Oracle's new six-month release cycle.

**What are the key features and enhancements introduced in Java 10?**

Following are the new features of Java 10.

**1. Local variable type inference** - Java 10 introduces the keyword 'var' which enables you to declare a local variable without specifying its type. The type for the variables is determined based on the type of object assigned to the local variable.

Example:  
  
var myLocalVar1 = 1 //myLocalVar1 is of type int;  
var myLocalVar2 = 'Ace Your Interview' //myLocalVar2 is of type String;  
var myLocalVar3 = new HashMap //myLocalVar3 if of type HashMap

This is the only feature interesting from a developer point of view.

**2. Unmodifiable collection enhancements** - Java 10 introduces new static methods 'copyOf()' on the List, Set and Map interfaces to create unmodifiable collections. if you attempt to modify this collection then you get an UnsupportedOperationException.

**3. Application class-data sharing** - Class data sharing (CDS) feature has been a part of JDK since Java 8. CDS helps reduce the startup time and memory footprint between multiple Java Virtual Machines (JVM).

Java 10 introduced Application class-data sharing (ApsCDS) that extends the CDS to include selected classes from the application class path.

**4. Other changes** - Includes improvements to Garbage Collection, New just-in-time compiler, Consolidation of JDK to a single repository, Thread-local handshakes, Time based release versioning, and removal of javah tool from the the JDK.