**Java 9**

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| |  |  | | --- | --- | | **Q1. How Java 9 would help resolve NoClassDefFoundError through it's modularity ?** | [Core Java](https://javasearch.buggybread.com/InterviewQuestions/questionSearch.php?searchOption=label&keyword=Core%20Java) | |
| Ans. Java 9 would provide an error at compile time if there are different modules with the same package mapped to the same class loader and hence would provide a compile time check for this issue.  NoClassDefFoundError exists because of ambiguity at realtime because of multiple versions of same package / class exist. As Java 9 would provide a compile time check for it through clearly defined dependencies and exports and a check on duplicate packages being loaded by single class loader, it will fix the problem. |

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| Ans. No. The whole idea of default method is to provide a default definition in case the implementing class intend to provide definition for only some of the methods. Making any of the interface method private would restrict it from being implemented by the implementing class. So default method is an option to provide implementation and not restricting a new definition. |

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| Ans. JVM and JDK are getting smaller.  New command line tool called jshell that will add native support and popularize a Java way to REPL (Read-Eval-Print-Loop)  private methods in interfaces  Introduction of the module system or project Jigsaw  JavaDoc Search  Light version of JSON API  HTTP2 client |

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| Ans. The projects aims to organize the Java source code into independent modules and hence facilitate building them independently.So now we will have multiple core java jars instead of single one. This way of organizing the code would offer following advantages  1. Will make applications lighter as only required modules will be built with the application. Moreover there are some legacy packages currently which anyone hardly use.  2. Reuse same class whole identifiers across different modules. |

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| Ans. It means that now individual modules will be built independently instead of complete jdk built in a single jar file. So we will have multiple jars instead of single jar. Moreover this organization would result in lighter applications as they can just built themselves with the required jars and hence ignoring the not required and legacy modules. |