Endinness:

endianness is the order or sequence of bytes of a word of digital data in computer memory. Endianness is primarily expressed as big-endian or little-endian.

1. Five attributes are critical to correct interpretation of the class file by the Java Virtual Machine:
   * ConstantValue
   * Code
   * StackMapTable
   * Exceptions
   * BootstrapMethods

**In a class file of version V, each of these attributes must be recognized and correctly read by an implementation of the Java Virtual Machine if the implementation recognizes class files of version V, and V is at least the version where the attribute was first defined, and the attribute appears in a location where it is defined to appear.**

**Table 4.7-B. Predefined class file attributes (by class file version)**

| **Attribute** | **class file** | **Java SE** | **Section** |
| --- | --- | --- | --- |
| ConstantValue | 45.3 | 1.0.2 | [§4.7.2](https://docs.oracle.com/javase/specs/jvms/se8/html/jvms-4.html#jvms-4.7.2) |
| Code | 45.3 | 1.0.2 | [§4.7.3](https://docs.oracle.com/javase/specs/jvms/se8/html/jvms-4.html#jvms-4.7.3) |
| Exceptions | 45.3 | 1.0.2 | [§4.7.5](https://docs.oracle.com/javase/specs/jvms/se8/html/jvms-4.html#jvms-4.7.5) |
| SourceFile | 45.3 | 1.0.2 | [§4.7.10](https://docs.oracle.com/javase/specs/jvms/se8/html/jvms-4.html#jvms-4.7.10) |
| LineNumberTable | 45.3 | 1.0.2 | [§4.7.12](https://docs.oracle.com/javase/specs/jvms/se8/html/jvms-4.html#jvms-4.7.12) |
| LocalVariableTable | 45.3 | 1.0.2 | [§4.7.13](https://docs.oracle.com/javase/specs/jvms/se8/html/jvms-4.html#jvms-4.7.13) |
| InnerClasses | 45.3 | 1.1 | [§4.7.6](https://docs.oracle.com/javase/specs/jvms/se8/html/jvms-4.html#jvms-4.7.6) |
| Synthetic | 45.3 | 1.1 | [§4.7.8](https://docs.oracle.com/javase/specs/jvms/se8/html/jvms-4.html#jvms-4.7.8) |
| Deprecated | 45.3 | 1.1 | [§4.7.15](https://docs.oracle.com/javase/specs/jvms/se8/html/jvms-4.html#jvms-4.7.15) |
| EnclosingMethod | 49.0 | 5.0 | [§4.7.7](https://docs.oracle.com/javase/specs/jvms/se8/html/jvms-4.html#jvms-4.7.7) |
| Signature | 49.0 | 5.0 | [§4.7.9](https://docs.oracle.com/javase/specs/jvms/se8/html/jvms-4.html#jvms-4.7.9) |
| SourceDebugExtension | 49.0 | 5.0 | [§4.7.11](https://docs.oracle.com/javase/specs/jvms/se8/html/jvms-4.html#jvms-4.7.11) |
| LocalVariableTypeTable | 49.0 | 5.0 | [§4.7.14](https://docs.oracle.com/javase/specs/jvms/se8/html/jvms-4.html#jvms-4.7.14) |
| RuntimeVisibleAnnotations | 49.0 | 5.0 | [§4.7.16](https://docs.oracle.com/javase/specs/jvms/se8/html/jvms-4.html#jvms-4.7.16) |
| RuntimeInvisibleAnnotations | 49.0 | 5.0 | [§4.7.17](https://docs.oracle.com/javase/specs/jvms/se8/html/jvms-4.html#jvms-4.7.17) |
| RuntimeVisibleParameterAnnotations | 49.0 | 5.0 | [§4.7.18](https://docs.oracle.com/javase/specs/jvms/se8/html/jvms-4.html#jvms-4.7.18) |
| RuntimeInvisibleParameterAnnotations | 49.0 | 5.0 | [§4.7.19](https://docs.oracle.com/javase/specs/jvms/se8/html/jvms-4.html#jvms-4.7.19) |
| AnnotationDefault | 49.0 | 5.0 | [§4.7.22](https://docs.oracle.com/javase/specs/jvms/se8/html/jvms-4.html#jvms-4.7.22) |
| StackMapTable | 50.0 | 6 | [§4.7.4](https://docs.oracle.com/javase/specs/jvms/se8/html/jvms-4.html#jvms-4.7.4) |
| BootstrapMethods | 51.0 | 7 | [§4.7.23](https://docs.oracle.com/javase/specs/jvms/se8/html/jvms-4.html#jvms-4.7.23) |
| RuntimeVisibleTypeAnnotations | 52.0 | 8 | [§4.7.20](https://docs.oracle.com/javase/specs/jvms/se8/html/jvms-4.html#jvms-4.7.20) |
| RuntimeInvisibleTypeAnnotations | 52.0 | 8 | [§4.7.21](https://docs.oracle.com/javase/specs/jvms/se8/html/jvms-4.html#jvms-4.7.21) |
| MethodParameters | 52.0 | 8 | [§4.7.24](https://docs.oracle.com/javase/specs/jvms/se8/html/jvms-4.html#jvms-4.7.24) |