2025/12/18 10:37 1/3 JVM 가.

JVM

가.

JVM 가

• : (Specification)

• : . JVM

• .java 가 javac java .ex) javac HelloWorld.java

가

JVM

• 가 1

• .class .

• 가 ,

JIT

• JIT ( Just In Time )

• , 가

•

**JVM** 

JVM 3가

1. ( Class Loader )  $\circ \ \mathsf{JAM} \qquad , \qquad \mathsf{Runtime\ Data\ Area}$ 

。 3

1. Loading

1. (Bootstrap class loader) :

```
2.
                                       (Extension class loader):
                3.
                                            ( Application class loader) :
           2. Linking
                1.
                       (verify)
                                                            가
                2.
                                              가
                       (prepare)
                3.
                       (resolve)
                                                        ( symbolic references )가
                   actual references )
           3.
                    (Initialization):
1.
                         (Runtime data area):
     1. METHOD AREA
     2. HEAP AREA
     3. STACK MEMORY
     4. PC REGISTER
     5. NATIVE METHOD STACK
1. JVM
                    ( JVM Execution Engine ):
     1. INTERPRETER:
                 가
     2. JIT COMPILER
     3. GARBAGE COLLECTOR
     4. JAVA NATIVE METHOD INTERFACE
```

## JDK JRE

JRE		JDK	
Java Runtime Environment		Java Development Kit	
Java Jav フト )	va Virtual Machine(	Java	
Java		Java	
JRE JDK 가		JDK JRE	
JRE JVM, ,	Java 가	JDK JRE, API , Java Webstart Java 가	,

## Ref

```
Where can I get technical information about Java?
Java

JVM ARCHITECTURE
JVM

가 JVM(Java Virtual Machine
```

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