

# JVM(Java Virtual Machine)

- 가 (.class) OS ( JIT
- ) . (JVM ) ( 가 JVM) .
- JVM : <https://docs.oracle.com/javase/specs/jvms/se11/html/>
- JVM : , Azul,
- 

Java11 Jre  
 Java9

# JRE, JDK

11

open-jdk

JVM

, JRuby, Jython, , ...

# JVM

- /
- / ( )
- / ,

- - , ( )
  -
- - ,

, PC(PC registers),

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## (Execution Engine)

- JIT(Just In Time) : , 가

JIT

- GC(Garbage Collector): .

```
$> javap -c ${ }  
Compiled from "CodeManipulationApplication.java"  
public class com.repia.java.codemanipulation.CodeManipulationApplication {  
    public com.repia.java.codemanipulation.CodeManipulationApplication();  
    Code:  
        0: aload_0  
        1: invokespecial #8          // Method  
        java/lang/Object.<init>:()V  
        4: return  
  
    public static void main(java.lang.String[]);  
    Code:  
        0: ldc          #1          // class  
        com/repia/java/codemanipulation/CodeManipulationApplication  
        2: aload_0  
        3: invokestatic #16         // Method  
        org/springframework/boot/SpringApplication.run:(Ljava/lang/Class;[Ljava/lang/  
        /String;)Lorg/springframework/context/ConfigurableA  
        pplicationContext;  
        6: pop  
        7: return  
}
```

, manipulation

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