

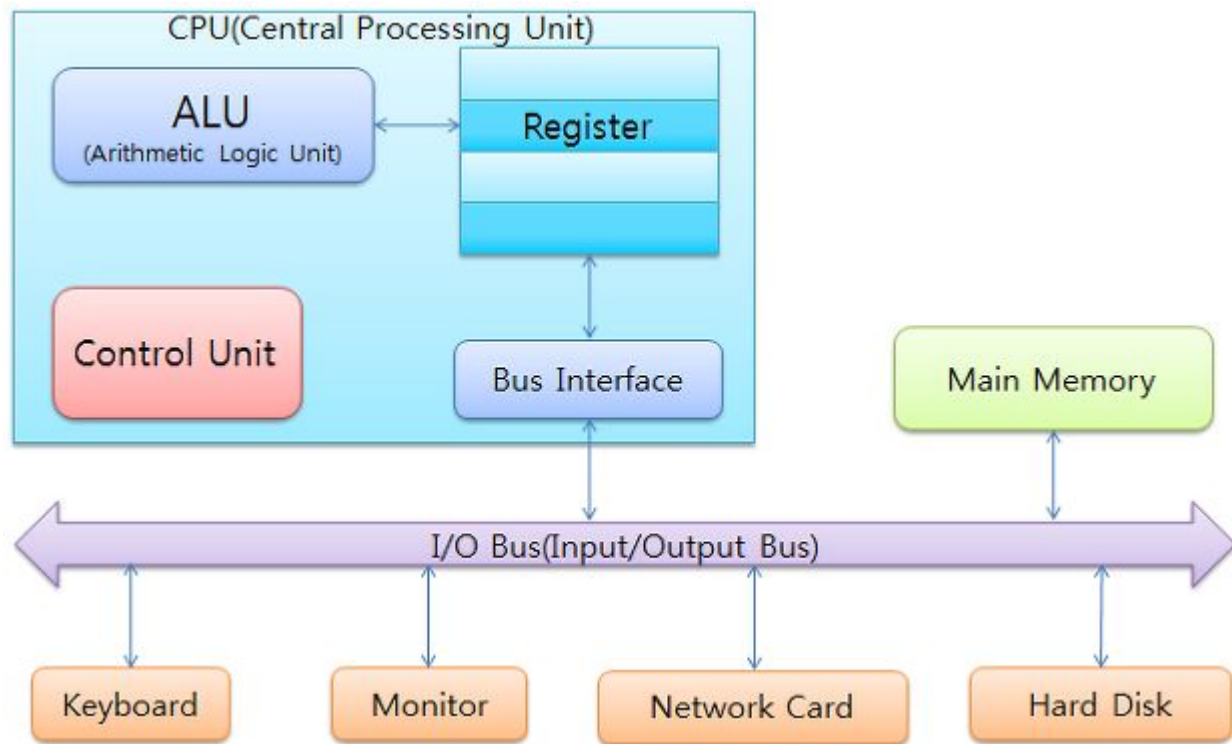
# Java

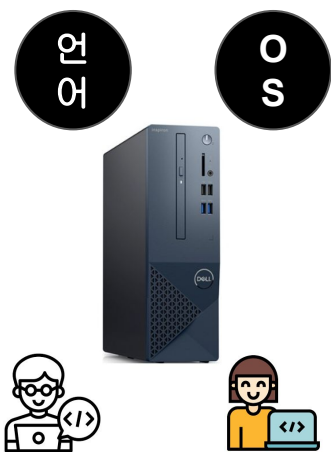


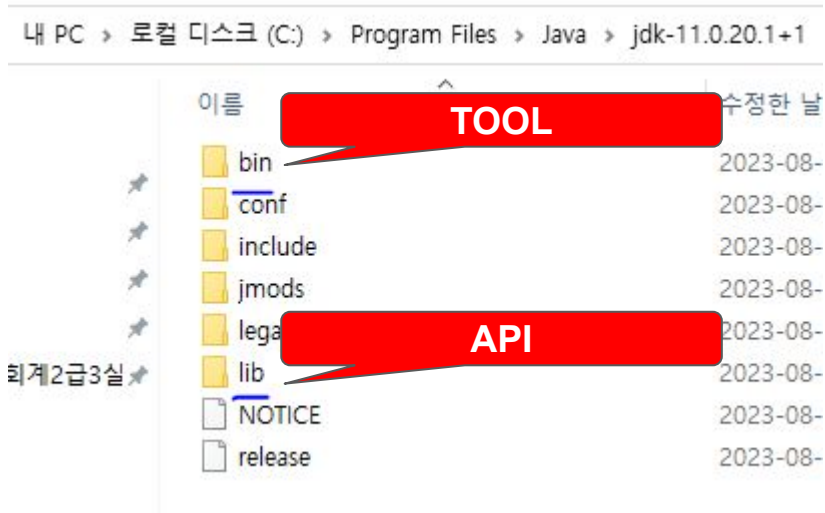
서버

인터넷

클라이언트







## JDK (자바개발환경)

javac, javap

## JRE (자바실행환경)

java, javaw, library(API)

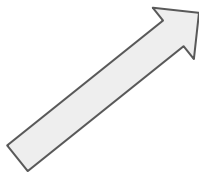
## JVM (자바가상머신)

JIT 컴파일러

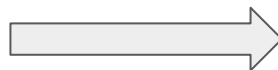
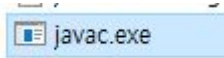


```
public class Hello {  
    public static void main(String[] args)  
    {  
        System.out.println("Hello Wolrd!");  
    }  
}
```

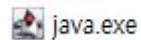
프로그래밍언어  
- 자바



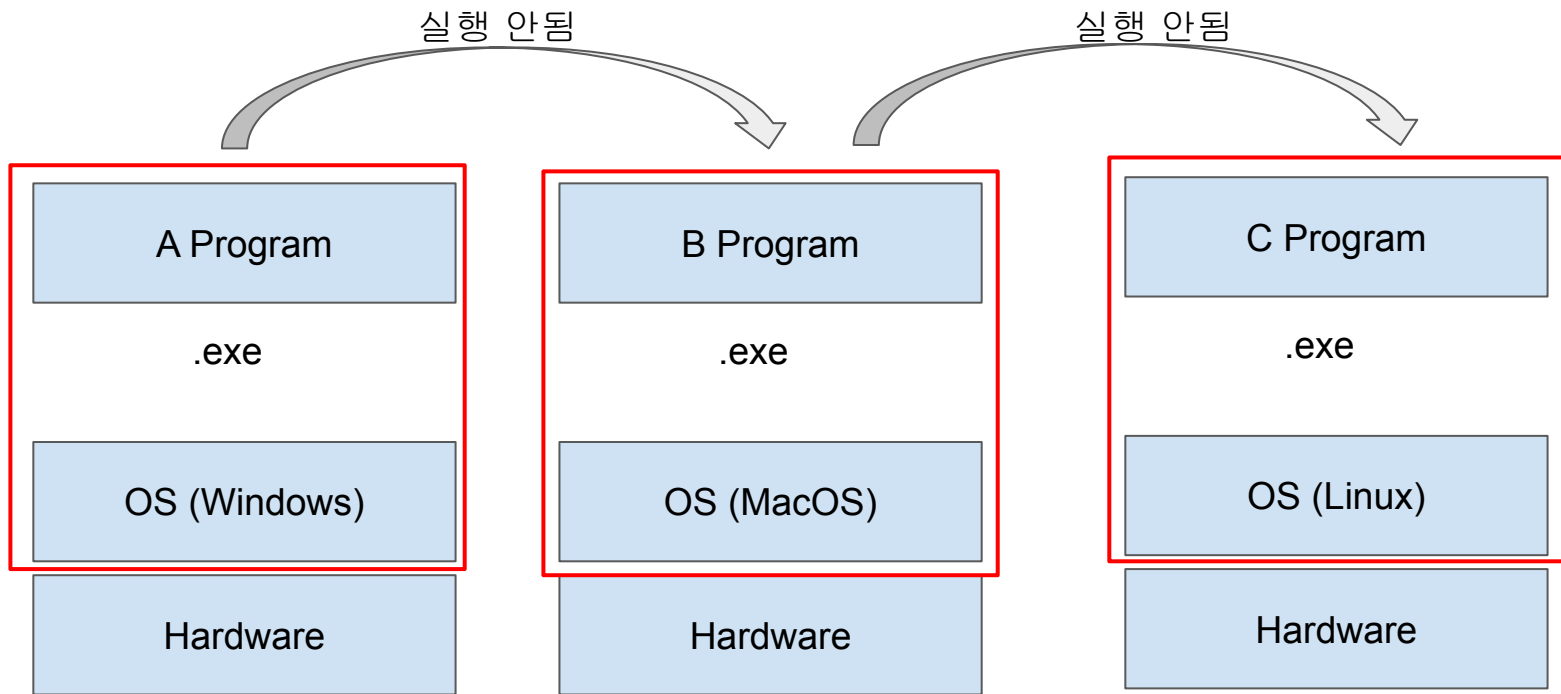
JDK에 포함된  
컴파일러



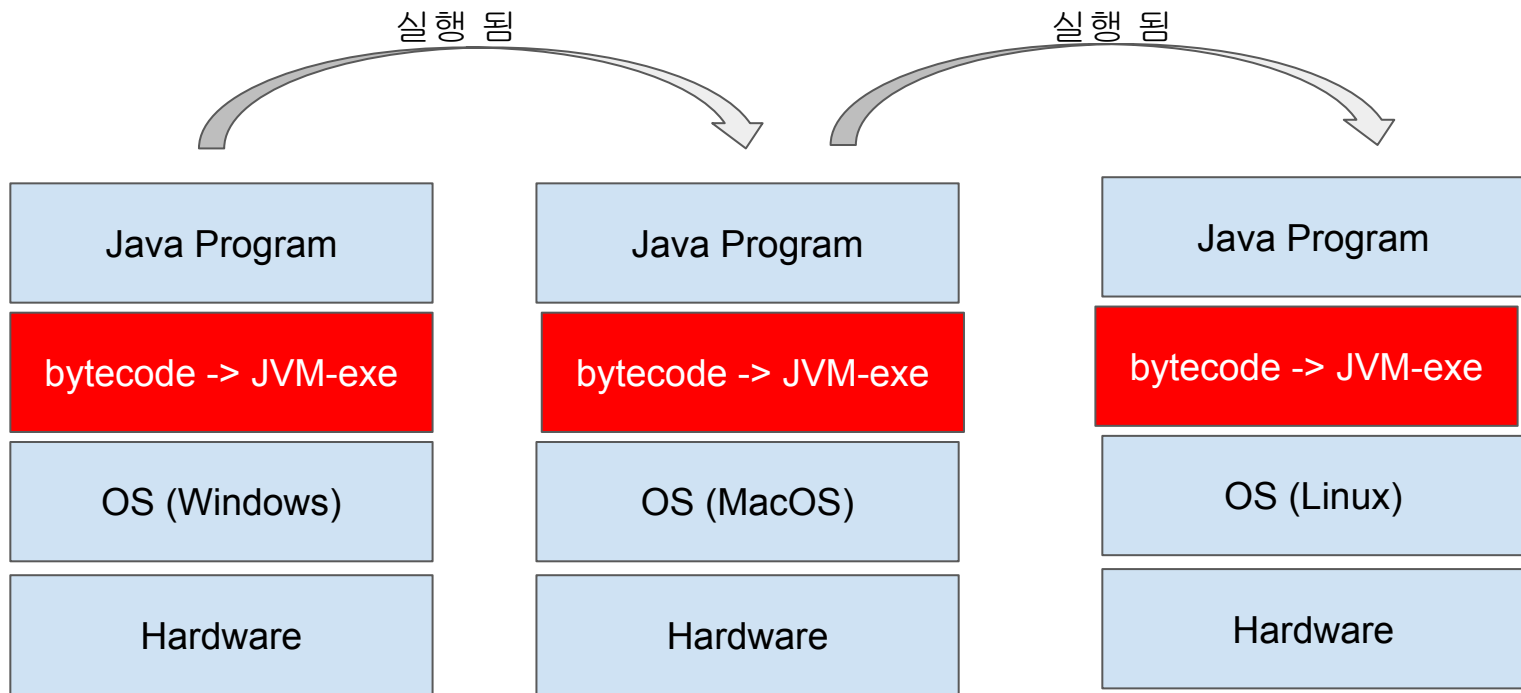
JDK에 포함된 실행



0010101111000011010  
0001101000000001111  
0000111100111100111



종속적





JDK에서 처리

Java Source  
File  
(.java)

컴파일  
(javac.exe)

Java Byte  
Code  
(.class)

Run을 하는 순간  
(실행하는 순간)  
java.exe

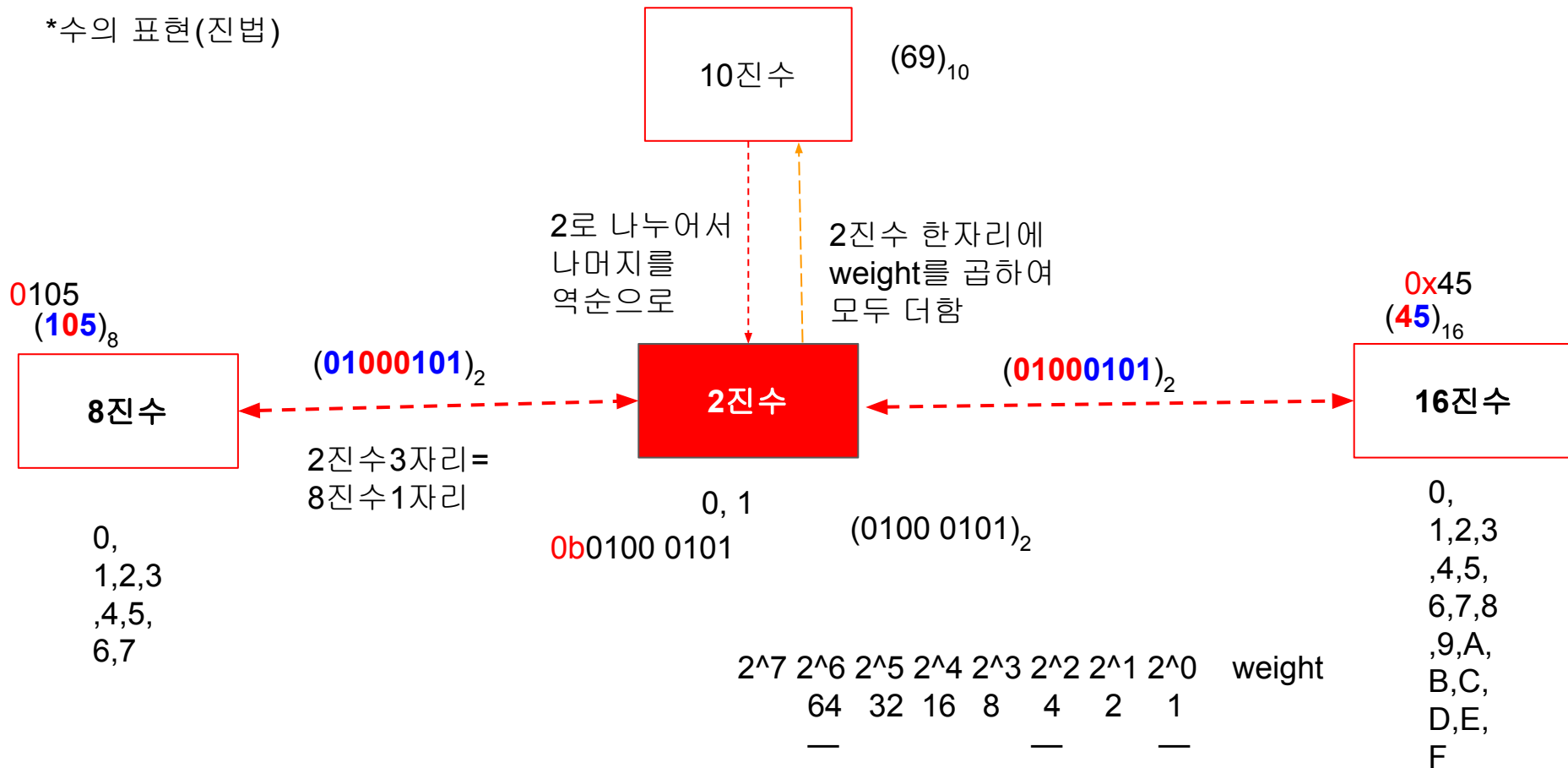
JVM이 동작 함

Class loader

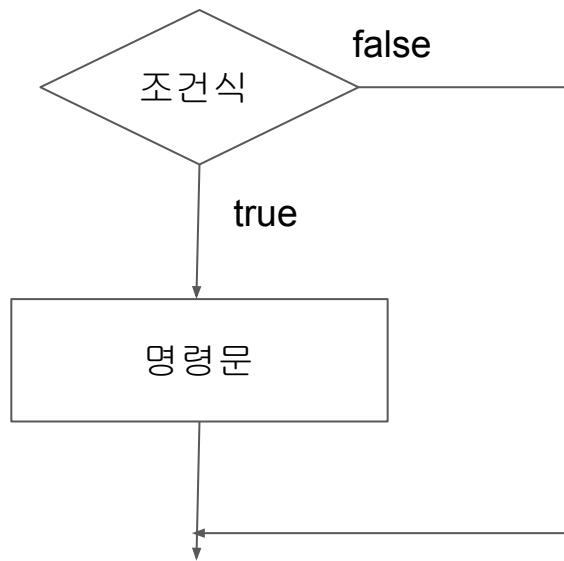
Execute

java.exe Hello (실행)  
⇒ 원격프로세서 호출 (JVM)

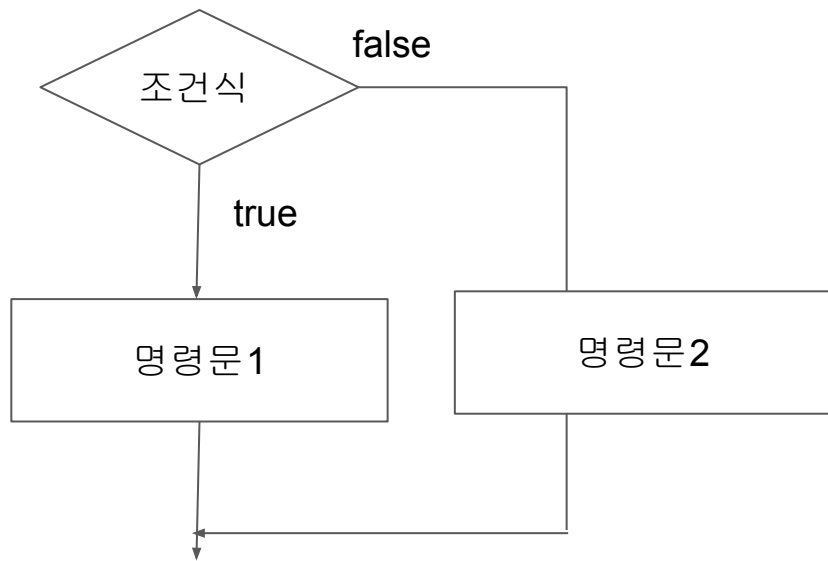
\*수의 표현(진법)

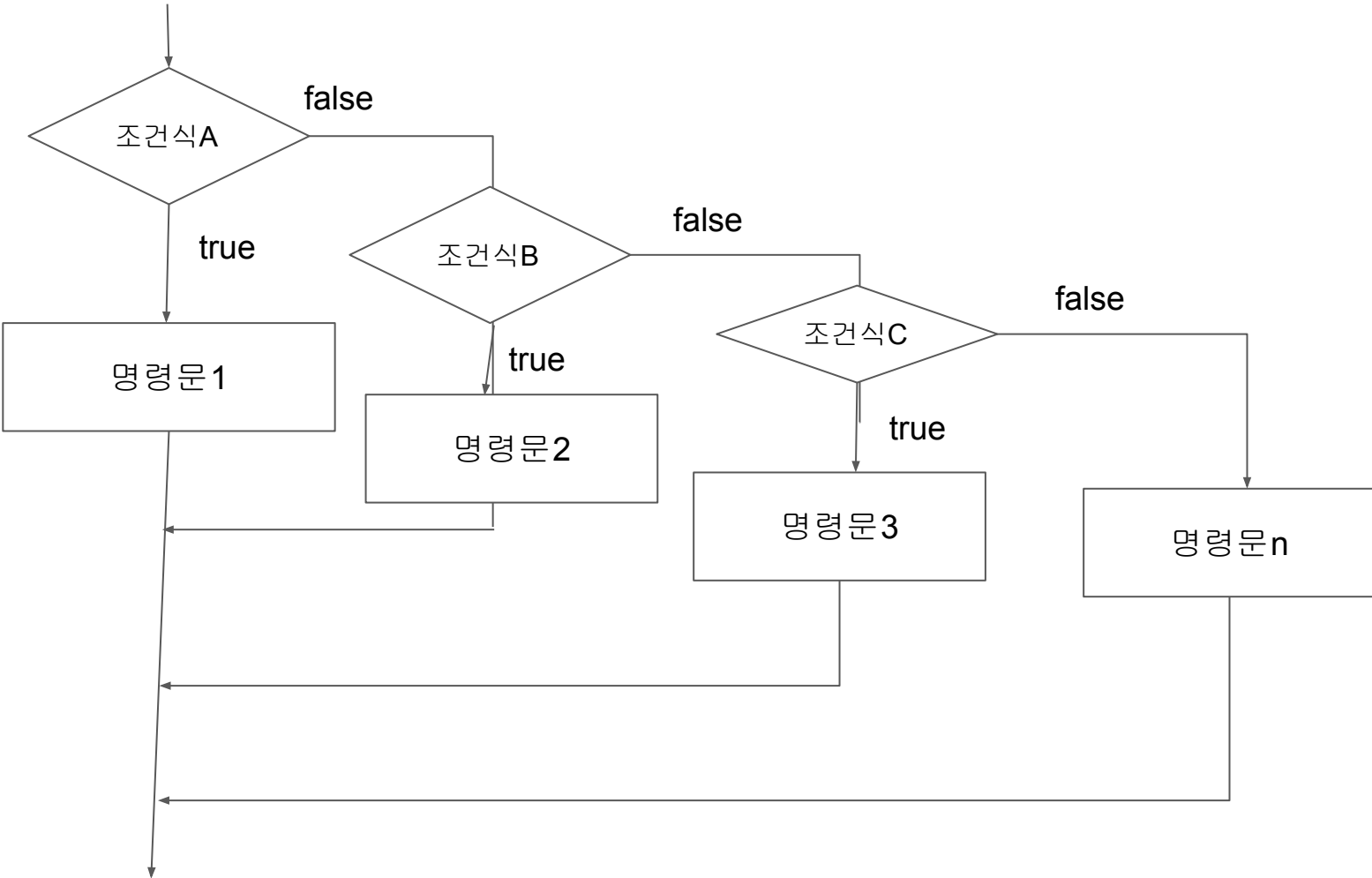


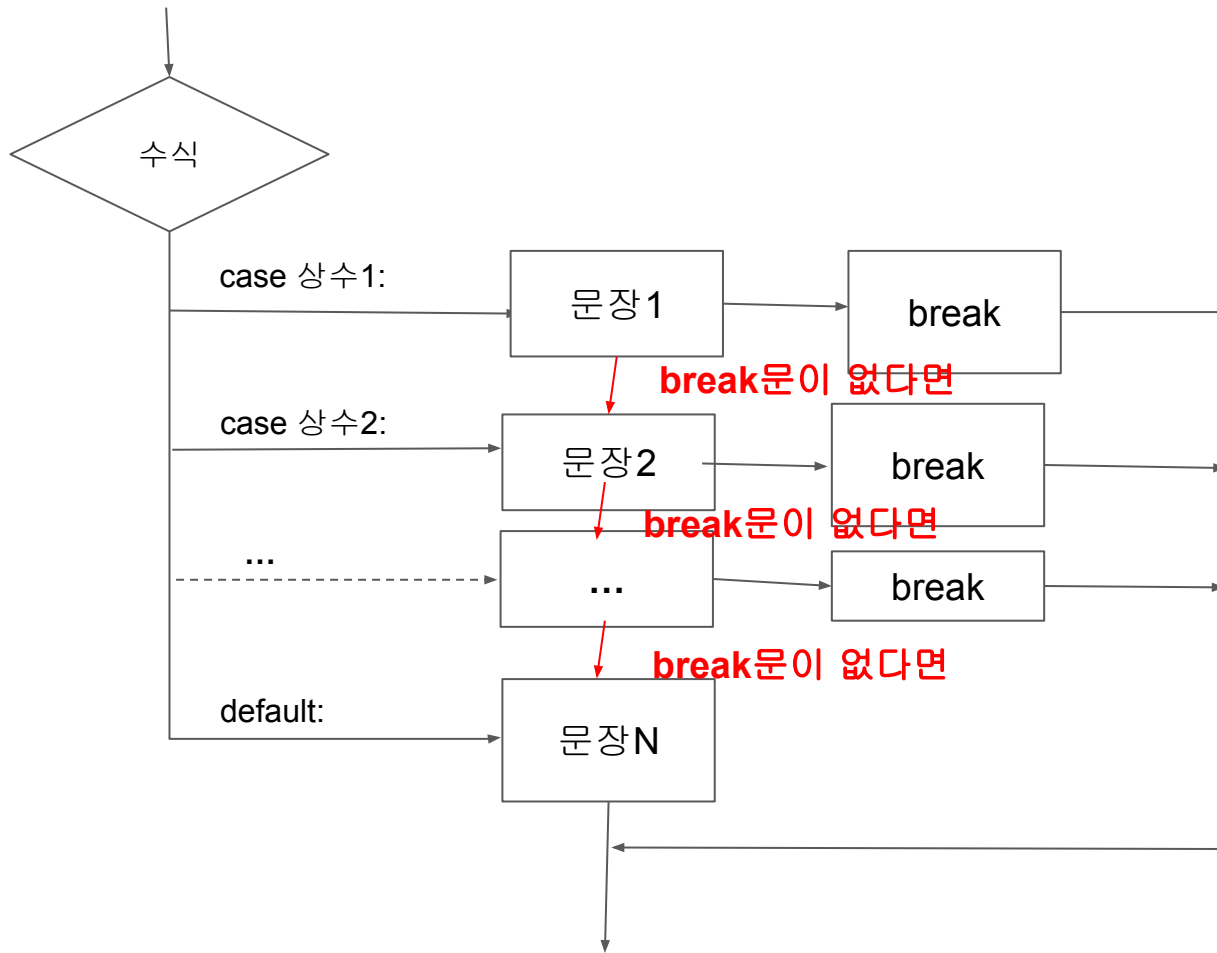
if문



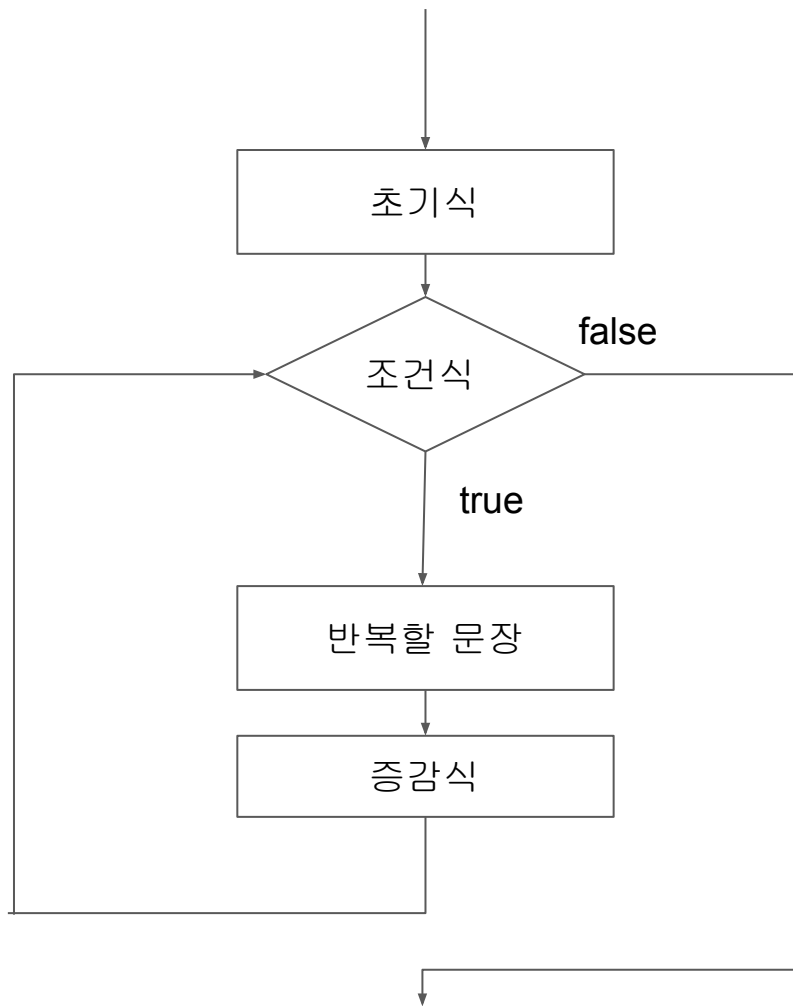
if ~ else 문



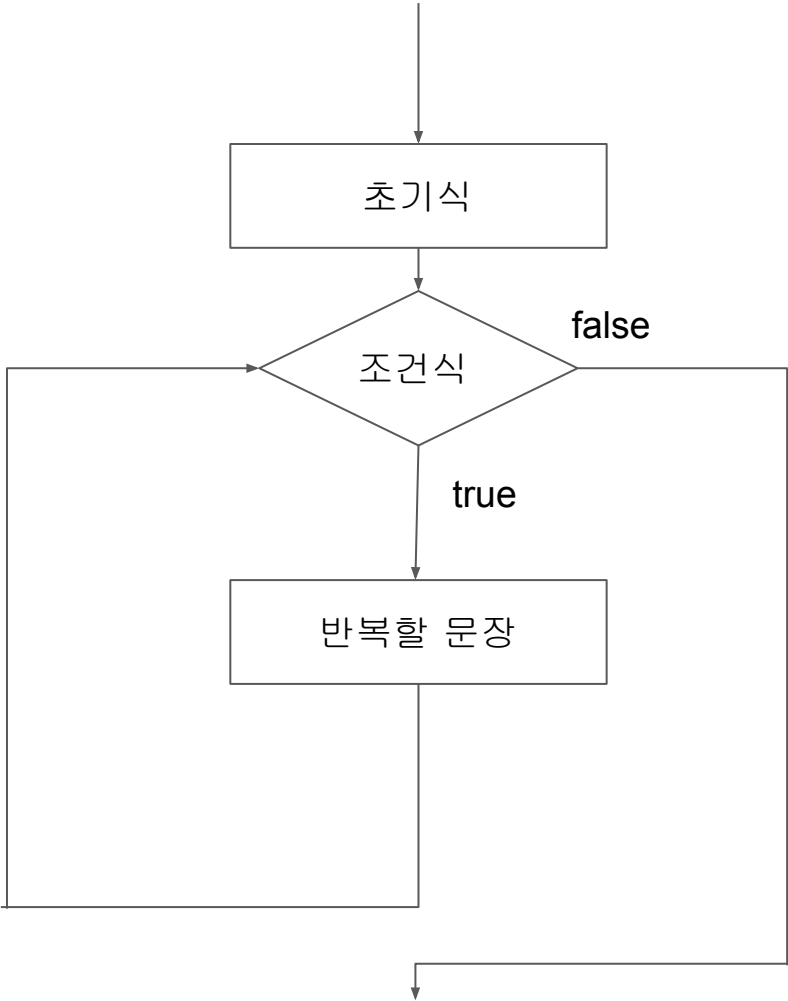




for문

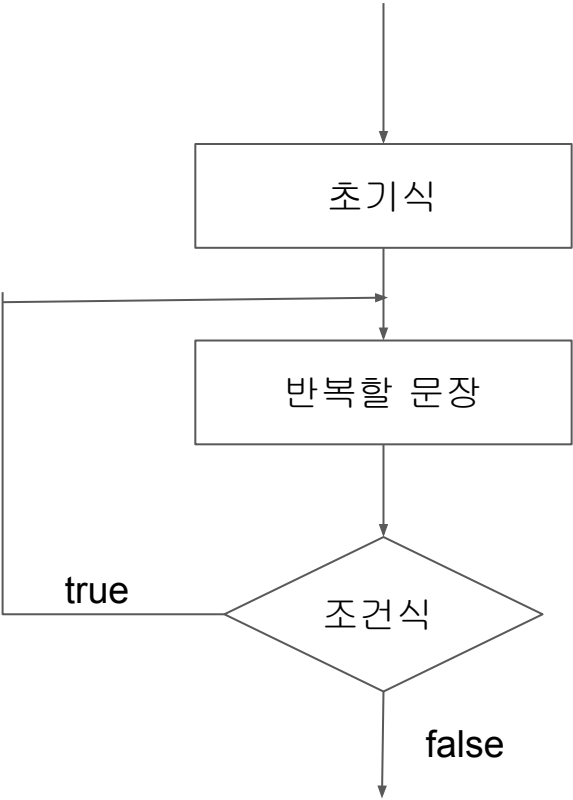


while문





do-while문



JDK에서 처리

Java Source  
File  
(.java)

컴파일  
(javac.exe)

Java Byte  
Code  
(.class)

Run을 하는 순간  
(실행하는 순간)  
java.exe

JVM이 동작 함

Class loader

Execute

java.exe Hello (실행)  
⇒ 원격프로세서 호출 (JVM)

JVM의 Memory model (Runtime Data Area)

Thread

Method Area

Heap Area

Stack Area  
(Call Stack Frame  
Area)

Runtime Constant  
Pool  
(Literal Pool)

## 런타임 data 영역들

