

→ Java Architecture  
→ Client - Server Architecture

# Java Architecture → Platform independent  
Platform dependent

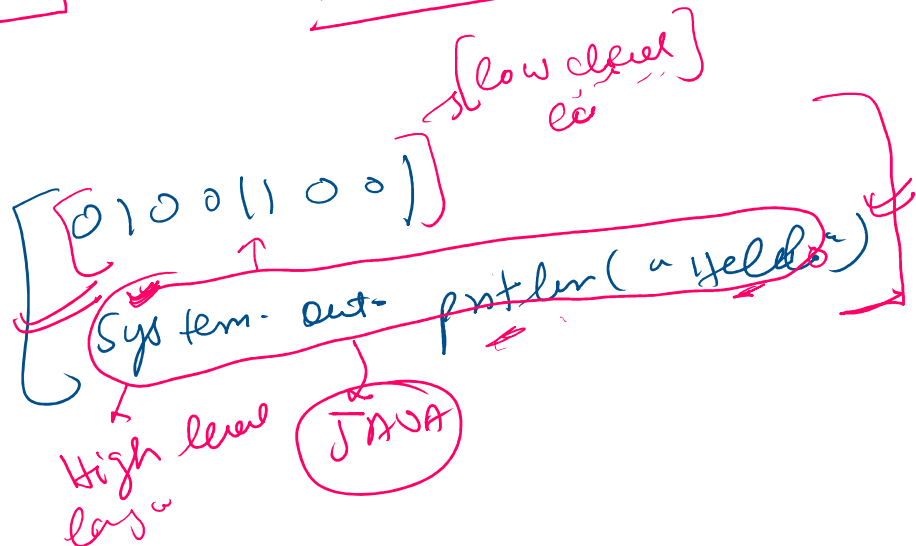
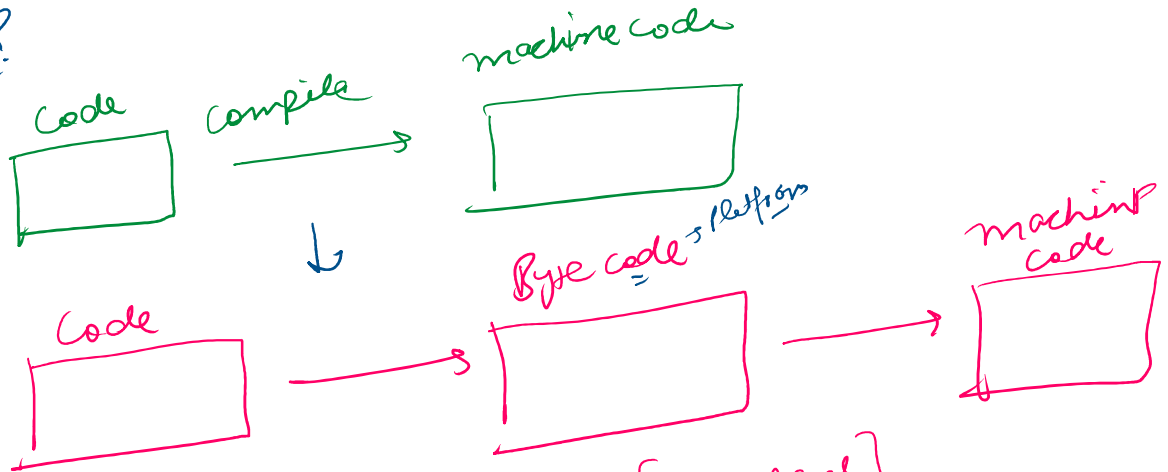
→ JDK  
→ JRE  
→ JVM  
→ JIT

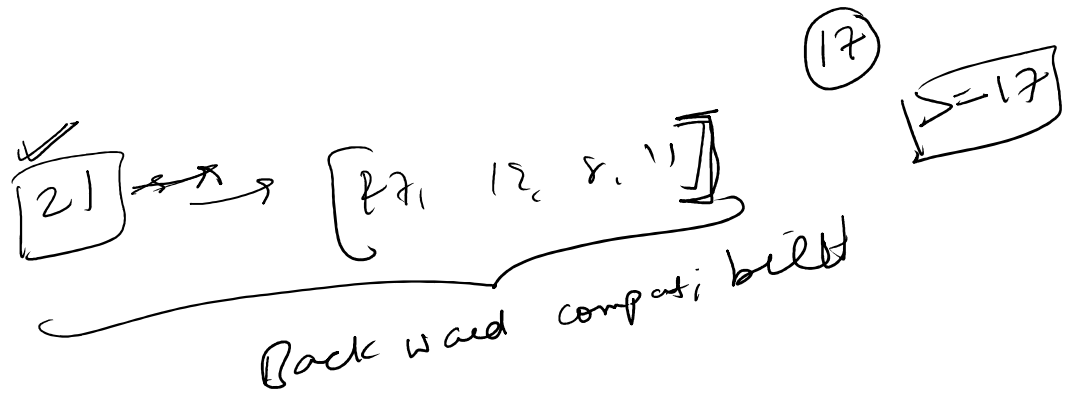
↓  
Compiler



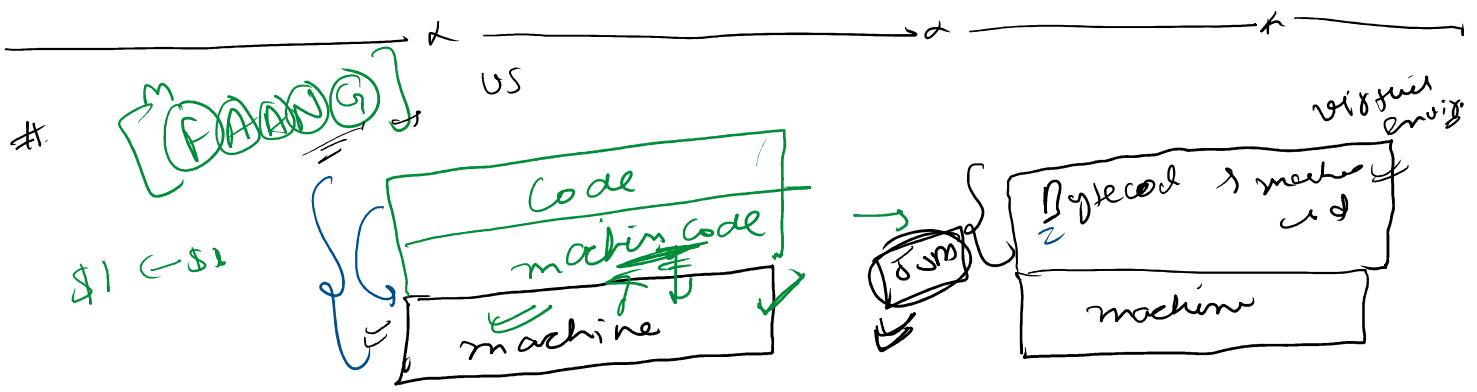
machine code

# How?





→ Java, Kotlin, Groovy.



JIT compilation

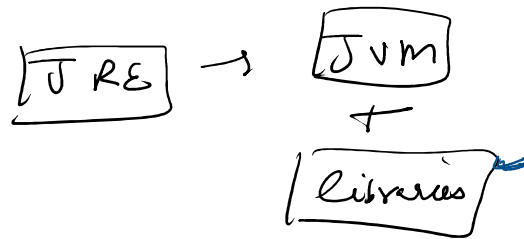
↳ [Just In Time compilation]

# Principle of Locality / Locality of Reference

[More than 90% of the time, your process accesses lot of the memory]

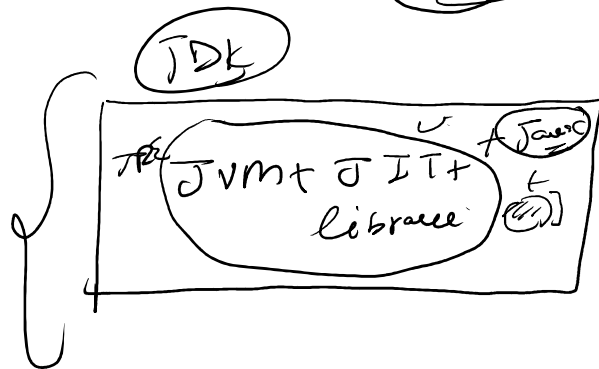
# [JRE] → [Java Runtime Environment]

# JRE → { Java Runtime Environment =



System out-port

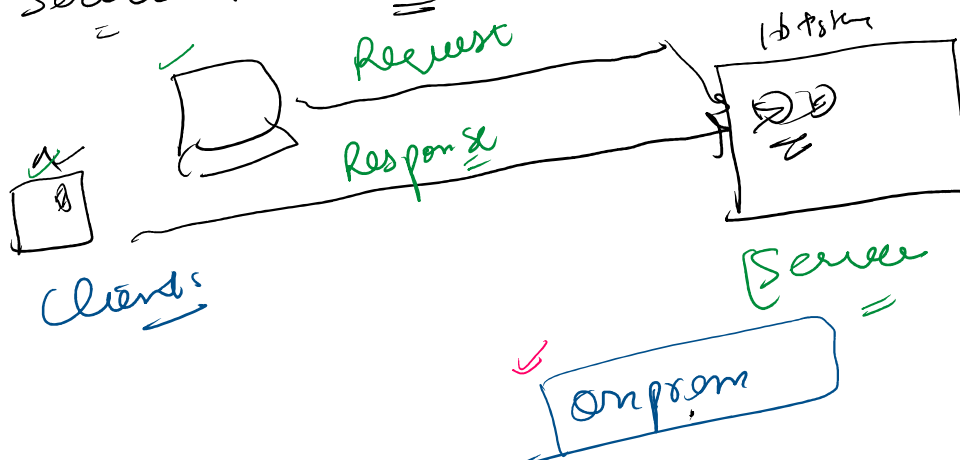
# JDK, Java Development Kit



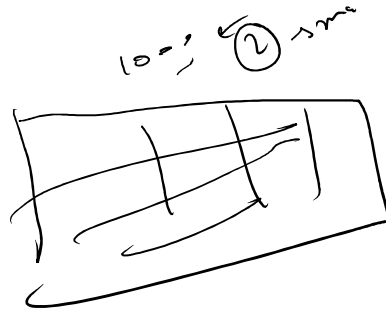
# Compiler Vs Interpreter



# Client - Server Architecture



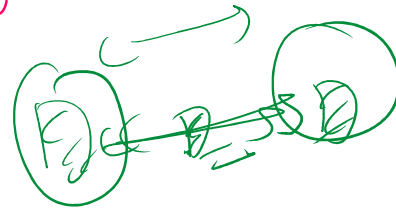
On prem



Cloud providers

AWS

# peer to peer Architecture



# Backend vs frontend

[Fullstack] -> 2 one