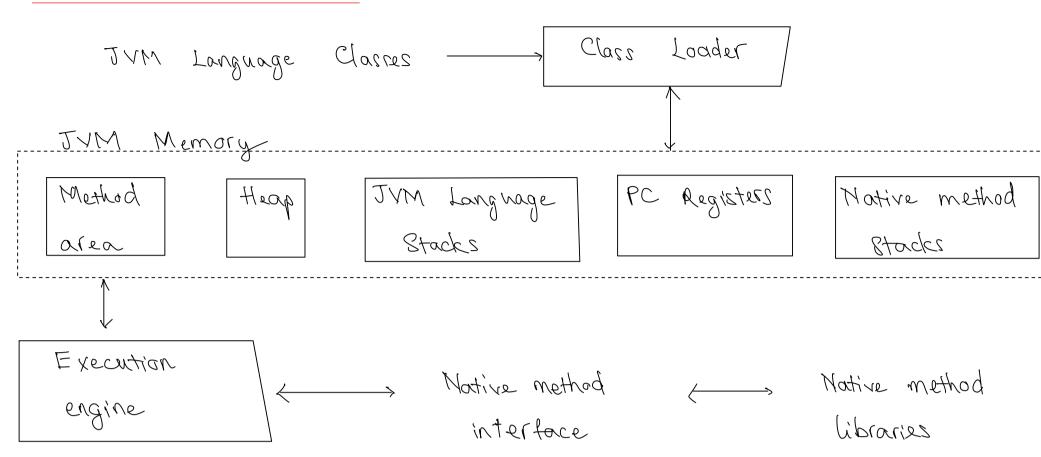
JAVA VIRTUAL MACHINE

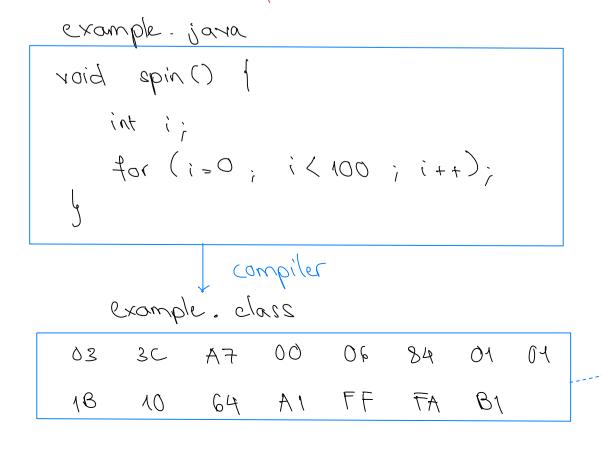
Architecture of the JYM



Runtime Area

Name	Scope	Lifetime	Contents
The pc Register	Per-thread	Thread	Address of JVM instruction currently being executed.
Java Virtual Machine Stacks	Per-thread	Thread	Stack frames, containing local variables, partial results, operand stacks.
Неар	Global, shared across threads	Virtual machine	Class instances and arrays. Garbage- collected.
Method Area	Global, shared across threads	Virtual machine	Per-class structures such as run-time constant pool, field and method data, code for methods and constructors.
Run-Time Constant Pool	Per-class or per-interface	Class or interface	Several kinds of constants, ranging from numeric literals to field references.
Native Method Stacks (optional)	Typically per- thread	Thread	Conventional stacks to support native methods.

Concrete Example:



2: goto 8
5: iinc 1 1
8: iload - 1
9: bipush 100
(for readability)

11: it_icmplt 5

14: retur

0: iconst _ 0

1 = istore - 1