<u>Test</u>
Tracing
Terminology
Diff btwn fcn def & fcn prototype
given 1, write other

6/19/17

object code

compile → Machine language → link → executable native + library machine lang. → Machine language CPU1 (Intel)

compile → link to bring in other machine code you did not write

CPU2

non-portable

slow
.java → class → Bytecode → Machine language → CPU → JVM → CPU1, CPU2, CPU3
good w/ user input
java

JRE
$ java hw1
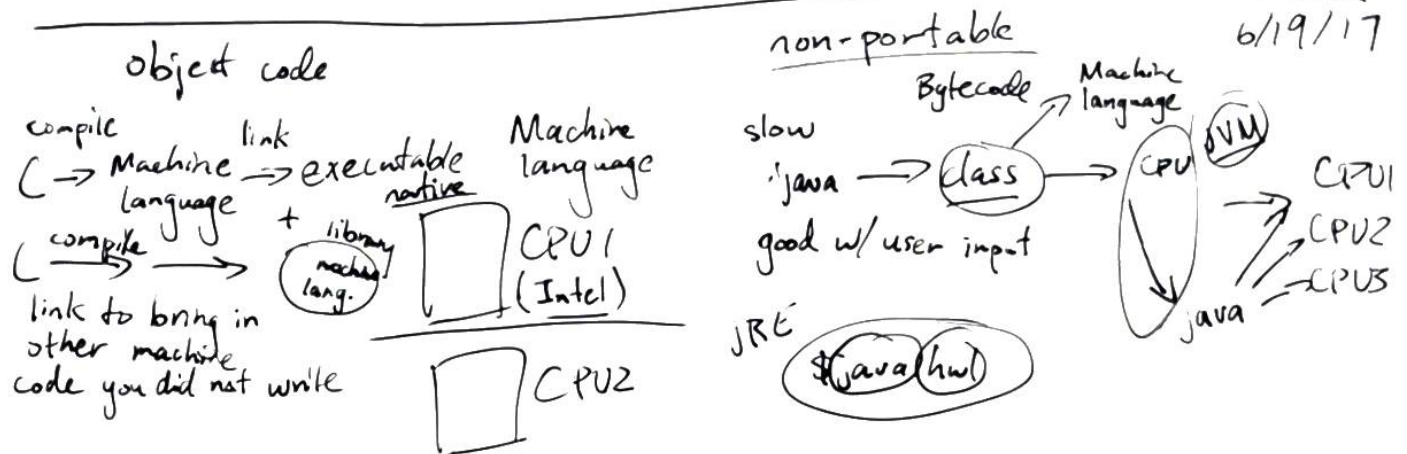
Numbering Systems

Name	Base	Digits
Decimal	10	0-9
Binary	2	0-1
Octal	8	0-7
Hexadecimal	16	0-9, A-F
		0-15

8 4 2 1
$2^3 2^2 2^1 2^0$
1 1 0 1
8+4+1=13

64 8 1
$8^2 8^1 8^0$
6 1 5 → 384 + 8 + 5 = 397
decimal
(64×6) + (8×1) + (1×5)

16^2 16^1 16^0
f a 7

0   2)1   2)3   2)6   2)13   dec
    ↓
[1   1   0   1]   binary

0   16)1   16)25   dec
    ↓
[1   9]   hex

int i;
i = 0x1fef

0x = hexadecimal

01 | 1111 | 1110 | 1111   = 1fef
1 | 15=f | 14=e | 15=f