C vs. Java differences

memory management (pointers vs. references)
Java is object oriented / C is more imperative
C is compiled to machine language (typically)
Java is compiled to intermediate form, need JVM to run
C is less strongly typed (void)
Java has runtime checking (NullPointerException, etc...)
What motivates programming language selection?

- Special purposes
- Efficiency/ease of implementation
- Ease of use
- Patience
- Economics
- Inertia
- Excellent compilers
- Open source
- Expressive power

Why study programming languages

- Understand obscure features (C++, ++)