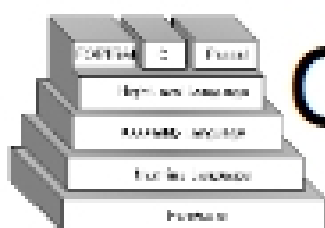


CSE 452: Programming Languages

Logical Programming Languages
Part 1



Outline

- ◆ Another programming paradigm:
 - Logic Programming
- ◆ Prolog
 - We'll be using GNU prolog (<http://www.gnu.org/software/gprolog/gprolog.html>)



Another Paradigm

QUESTION: "What is a computer program?"

ANSWER:

"It is an executable representation of some algorithm designed to solve some real world problem."

- ♦ Kowalski (CACM, 1979):
There are two key elements to a computer program
 - Logic – what we want the program to achieve
 - Control – how we are going to achieve it

ALGORITHM = LOGIC + CONTROL

- ♦ Difference between imperative and declarative programming