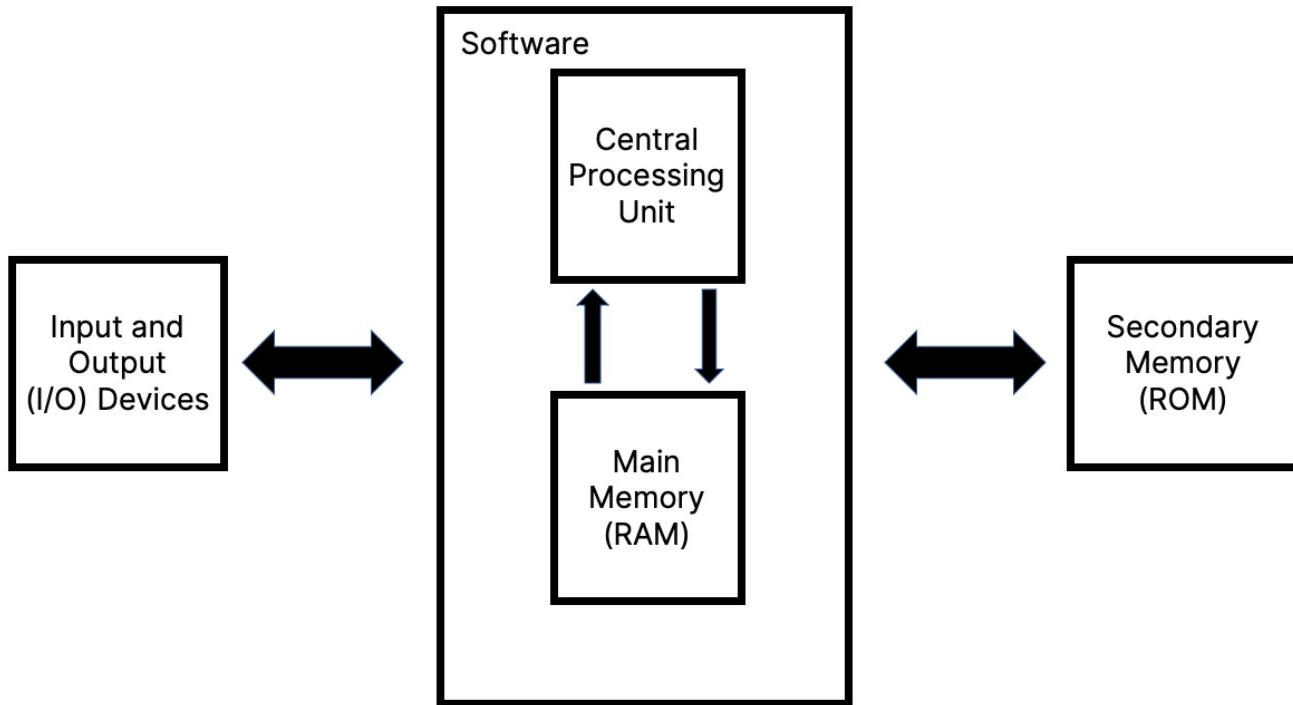


What is a Computer?

Computer Architecture



Users vs. Programmers

Users see computers as a set of tools to solve problems,
e.g. Excel, Calculator, Email

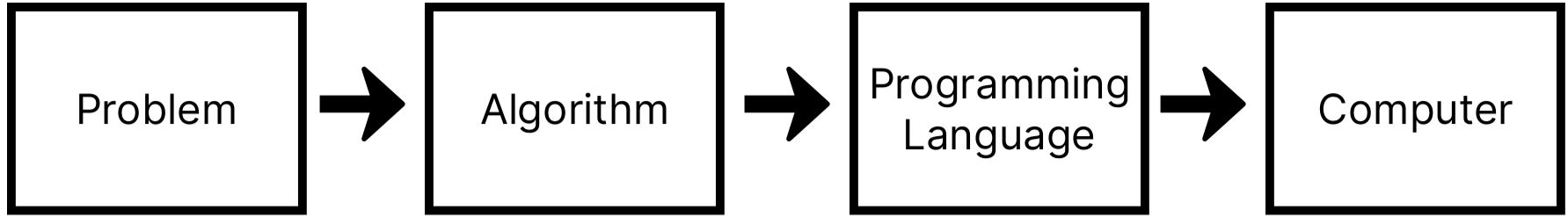
When Users have a new problem to solve,
they turn to Programmers

Programmers write code to solve User problems,
which are instructions stored in the computer

To do this, Programmers must understand how
computers work, and how to talk to them in a
programming language (like Python or JavaScript)



The role of a Programmer



Problem: You are given a real-world problem to solve

Algorithm: You must develop an algorithm (step-by-step-solution)

Programming Language: You will now use this algorithm to write a program

Computer: The computer will execute this program for a User to use