

# CSE 830: Design and Theory of Algorithms

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Many slides adapted from those used by Dr. Charles Ofria

# Outline

- Definitions
  - Algorithms
  - Problems
- Course Objectives
- Administrative stuff ...
- Analysis of Algorithms

# What is an Algorithm?

Algorithms are the ideas behind computer programs.

An algorithm is the thing that stays the same whether the program is in C++ running on a Cray in New York or is in BASIC running on a Macintosh in Alaska!

To be interesting, an algorithm has to solve a general, specified problem.