

COMPUTER SCIENCE STUDY GUIDE

Chapter 1: Introduction to Computer Science

Chapter 2: Algorithms:

1. What is an algorithm?
An algorithm is a set of instructions for solving a problem.
2. Why is it significant that algorithms allow us to capture intelligence and share it with others?
Since algorithms are a way of sharing intelligence, many people can use this intelligence without having to know all the background principles involved. No one can become an expert in all fields, so algorithms are an important tool for sharing solutions.
3. How does a recipe allow you to reuse "captured intelligence"?
A recipe gives you specific instructions for preparing a certain food like a cake. Although you may not be an expert chef, you can still bake the same cake that an expert chef bakes by following his recipe. In this case, the recipe represents the captured intelligence of the chef.
4. Why are algorithms important to computers?
Computers are general purpose machines that must be given instructions in order to do useful work. We can make computers "intelligent" by programming them with various algorithms. Then the computers can use the algorithms we created to solve problems.
5. What limitation do computers have as problem solving machines?
Computers can only solve problems whose solutions can be stated in the form of an algorithm.

Definition of an Algorithm

1. Why is it not possible for a computer to use the algorithms from the introduction lesson (i.e. the Cherry Pie Recipe Algorithm)?
These algorithms are too ambiguous for a computer. For example, most computers do not understand how to remove an oil plug from a car's oil pan. We need instructions that are more specific and basic for a computer.
2. What are the five characteristics of an algorithm?
 - Algorithms are well-ordered.
 - Algorithms have unambiguous operations.

Computer Science Study Guide

Yan Bai



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