Unit 3 – Lesson 6: Defining Algorithms



Algorithm

Precise set of rules for how to solve a problem



Algorithms must:

- 1. have an order
- 2. have clear instructions
- 3. operations that can be done by a computer
- 4. produce a result
- 5. stop in a finite amount of time

So what makes a good algorithm?

- Speed?
- Easier to Code?
- Memory Use?
- Easy to maintain?
- Security?
- Reliability?

How doe we measure these?

Why analyze algorithms?

- predict performance
 - Does this work?
 - Will it work if …?

- make decisions
 - which algorithm is best in this circumstance?

There are certain patterns in algorithms that are standard

For instance – sorting data



Vocabulary

Algorithm Precise set of rules for how to solve a problem.	
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