

25 Aug 2021

Soft HW for tonight:

- ① make sure email forwarding is setup
 - ② access to D2L?
 - ③ gradescope?
 - ④ read through README.md (our syllabus)
 - ⑤ Git + LaTeX setup
 - ⑥ H-00 is due Monday! Take a look
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What is an algorithm?

- a series of steps to solve a problem
 How Why: does it actually solve it? Proof! What
 - finite / must terminate
 ↳ "How fast"
 - has an input + an output (can be void)
 ↳ can be a change of state.
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Induction:

- Almost always ~~best~~ to start inductive step as
 "Given $k+1$ " ← Generalizing from the general particular

Bad: (usually) "Given k , add one to it"

- Inductive Assumption (worth 50% of the H-00 Induction problem)
 - base case n_0
 - IA: Let $k \geq n_0$