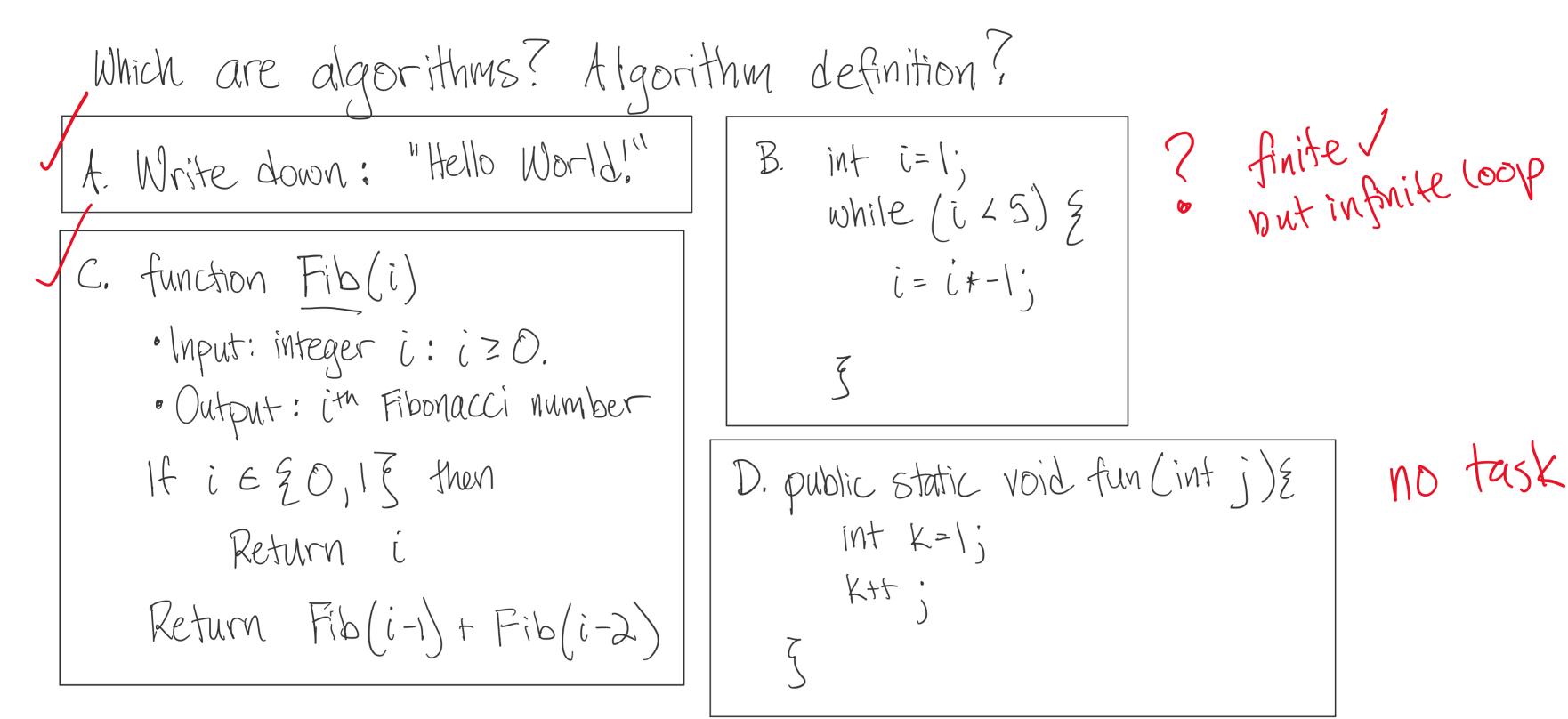
### **Learning Goals (Today)**

- Define algorithms
- Understand course structure
- Brainstorm group work strategies



Def: A finite, <u>clearly</u> defined sequence of instructions for carrying out a task.

- for whom? . class mates + me (Pseudocode English + math) · Compute
  - (java)

Grand Plan			
	Divide + Conquer	Greedy	Dynamic Programminy
Describe			
Describe (pscudocodo+)			
Proving Correctness			
Analyzing Runtime			
Consider Phical Implications			

NP-completeness -> comparing difficulty of problem

## Learning Goals?

- <a href="https://www.cs.middlebury.edu/~skimmel/Courses/302S22/syllabus.html#Goals">https://www.cs.middlebury.edu/~skimmel/Courses/302S22/syllabus.html#Goals</a>
- (go/cs302 or go.middlebury.edu/cs302)

How are we going to get there?

## **Group Problem Solving**

Not graded on whether you solve the problem Credit for actively working to create a positive group environment Good group work often doesn't feel easy, but it should feel respectful What do to when things get challenging?

# As a group:

- Name want to be called, pronouns if desired, Interest
- Brainstorm potential difficulties that might arise in group problem solving sessions. Then brainstorm solution that create a positive group/learning environment. Example difficulty: You suggest an idea, and no one seems to notice. A couple minutes later, another groupmate who you know has done well in past CS classes suggests a very similar idea that everyone else supports and moves forward with.
- https://docs.google.com/document/d/1cRQvnoZLCgTd1cGvBtbqRdtWriDrXRXDiVfQWtYSov M/edit?usp=sharing

## Logistics:

- Apply to do research with CS profs this summer <a href="https://forms.gle/kn6Tw83whKY6WVDH9">https://forms.gle/kn6Tw83whKY6WVDH9</a>
- <u>Upcoming Assignments</u> (Getting to know you, Exit Tickets, Rough Draft, Participation)
- Office Hours this week: 1:30-4:30 Thursday (hybrid) or by appt Will post notes and videos of course (video only accessible to class)
- Exit tickets