You are ready!
- Your Github repository and Piazza team has been created.
- You know how to use the toolchain.
- You understand what an Ast is and how to use Xtc to traverse one.
- Soon you know how structure target C++ code.

Timeline
- 5 weeks to accomplish midterm features
- On average a phase-per-week (though that’s not really how it will go)
- Midterm presentations in-class, date is on website.
- (Then onto second half; overloading & memory management)

Supported translator feature set (for midterm)
- inheritance
- method overriding & dynamic dispatch
- static data and methods

Midterm evaluation
- Translate Test000.java through Test020.java in src/test/inputs
- 5-6 slides slides detailing state of project, challenges and key learnings
- 10-minute presentation of the contents of your slides in class

Team approach
- Structured collaboration
- Weekly team meetings
- Weekly report
- Piazza inter-group and intra-group discussions
- In-class knowledge sharing
- Office hours
- Leverage a phased approach to solve subproblems. Divide and conquer!
  - Phase 1: Generate Java Ast for primary source and its dependencies.
  - Phase 2: Build an ast that represents the data layout and vtable
  - Phase 3: Print C++ header file (output.h) with data layout and vtable for the source and its dependencies.
  - Phase 4: Mutate and decorate Java Ast from Phase 1 to translate to C++.
  - Phase 5: Print C++ implementation files (output.cpp, main.cpp) for primary sources and its dependencies.
  - Note: Do not attempt to transform/mutate an Ast and print target code in the same pass.
    If you are even able to pull it off, the code will be illegible and bug-ridden.

Weekly report
- By 11:55pm *every* Sunday night. The team will post to the *team Piazza group*
  the answers to these questions:
  ➔ What did you accomplish this past week? Provide links to significant Git commits.
  ➔ What are you going to accomplish this coming week?
  ➔ What is blocking you? What are your main challenges?
  ➔ What is the division of labor? Who is working on what?
- This will count for %5 of your translator grade.
- Every time it is missed %1 is deducted from team grade.

How to get started now
- You know enough to do Phase 1. Start immediately. It’s very easy, once you understand it.
- You know that you will have to visit the Ast in the source of the output of Phase 1.
- Soon you will know everything you need to know to do Phase 1 & 2.
- Once phase 1 & 2 are understood, you should work on the Ast schema for the inheritance hierarchy.