#### 程序代写代做 CS编程辅导



# CS Celegista Consider Consider Construction Assignment Project Exam Help Compiler Construction

QQ: 749389476

#### 程序Structor辅导

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#### What is this about?

machine code.



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• How do we structure a compiler to be:
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Correct

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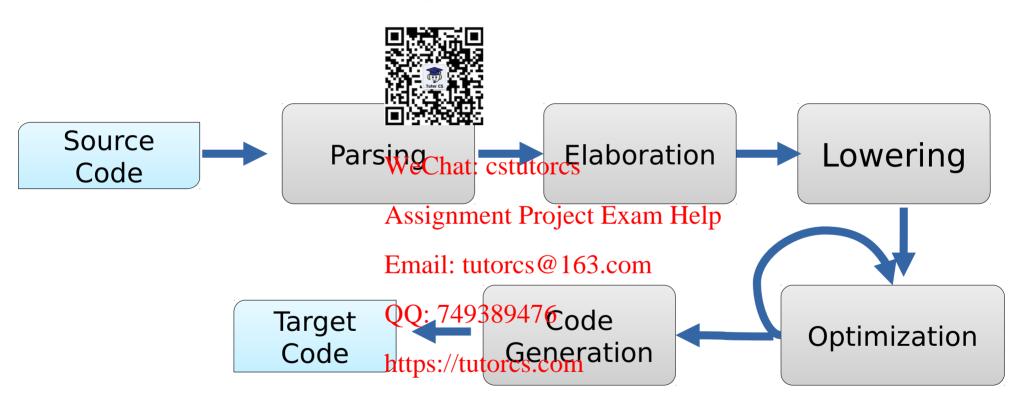
Maintainable

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Extensible

## Compiler Architecture

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- Convert a string data structure:
  - Lexing: Conver have haracters into list of tokens
  - Parsing: List of tokens into abstract syntax tree

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Strings/Files

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Tokens
https://turorcs.com

Abstract
Syntax Trees

### Elaboration !

- Type-checking
- Resolve variables/modules/names

• Check other "well-formedness" properties

Untyped QQ: 749389476 Typed
Syntax Treesps://tutorcs.cosyntax Trees

# 程序以外段的编码辅导

• Translate high-level constructs:

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E.g. while/for replaced by "cgoto" Help

Typed Syntax: 749389476 Intermediate
Trees https://tutorcs.com ASTs

# Optimization

- Make code mor ient:
  - Remove "dead" 🖳 📆
  - Simplify computations (replace 3+6 with 9)
  - Reuse repeated computations

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#### Code Generation

- Convert Interme code to target:
  - Register Allocat®
  - Instruction Selection Instruction Selection

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# Required Background

Officially:

- CSCI-GA 1170, (回路路A 2110, and CSCI-GA 2250.

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- Unofficially: Assignment Project Exam Help
  - Passing familiarity wilth basic computer systems/architecture/49389476
  - Willingness to workshandrtofill gaps

#### Administrative Details

- Website: Bright \*\*
- Assignment submission: GradeScope

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- ~9 assignments determine the entirety grade.
  - 3 late days total throughout semester
  - See collaboration policy con website

# Programming Environment

OCaml

Functional progration language, very good for writing compilers

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- Intensive introduction in first week am Help

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• SPIM QQ: 749389476

- Simulator for MIPStassemblyolanguage

#### Resources

 No official book, buse OCaml and compiles



are many references about

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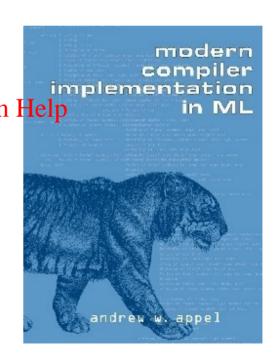
• Closest to what we're doing:

- Closest to what we're doing:

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Modern Compiler Implementation in №2: 749389476 by Andrew Appel

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# Assignments (Tentative)

- 0. Ocaml warm-up
- 1. MIPS Simulator 問題
- 7. Control-Flow Graphs
- 8. Register Allocation
- 2. Fortran-ish → MyPeSat: estutores
- 3. C-ish → MIPS Assignment Project Exam Help
- 4. Scheme-ish → G\_mish\_utorcs@163.com
- 5. ML-ish → Scheme-ish<sub>9476</sub>
- 6. Optimization https://tutorcs.com

# Learning Quicomes

- Understand how pilers work:
  - What can they
  - What can they not do? \*\*
- Lots of functional programming experience
- Thinking of languages as an extensible programming interfacecs.com