Assignment Project Exam Help

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Dr. Liam O'Connor University of Edinburgh LFCS UNSW. Term 3 2020

Who are we?

I am Lam Significant the United States of Lectures for this iteration, to ensure a smooth hand-ov

Dr. Christine https://eduassistpro.github.io/who works on, amo with data61.

Vivian Dang a Add WeChat edu_assist_pro Christine on security type systems, and Matthew will be immining at Edinburgh.

Who are we?

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Contacting Us

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There is a Piazza for Cheek rulbs at edu_assist_pro
I highly recommend disabling the Piazza Cheek rulbs at edu_assist_pro

Administrative questions should be sent to cs3161@cse.unsw.edu.au.

What do we expect?

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This course uses a si
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necessary nor shttps://eduassistpro.github.io/

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What do we expect?

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Programming

We expect you to be familia With Can hat least one other pages st_pro

Course assignments 1 and 2 are in Haskell. Only very simple Hask some self-study may be needed.

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Assessment

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```
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```

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Tutorials

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- Start this hettps://eduassistpro.github.io/
- Please attempt some of the questions beforehand.

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Assignment 0

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- Focuses on t
- It will be https://eduassistpro.github.io/
- Aim to have m
- 10% penalty for one day late, 25% for two, 50% for three and Add WeChat edu assist pro

Assignments

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- Given a form
- Released anttps://eduassistpro.github.io/
- Approxim
- \bullet 10% penalty for one day late, 25% for two, 50% for three and $Add\ WeChat\ edu_assist_pro$

Lectures

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- My lectures (Blackboar https://eduassistpro.github.io/
- All board-work will be done digitally and made available t
- Separate lecture holes We cubished tedu_assist_pro

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Books

There is no expose for this course. Regular written lecture notes are made available throughout the semester, along with challenge exercises.

Much of the course explanations mattps://eduassistpro.github.io/these books exact

- Types and Programming Languages by Benja https://www.cls.lupen/Pedu/~blpierc
- https://www.cls.lupun/edu brienc edu assist pro
 Practical Foundations for Programming Language
 University Press. http://www.cs.cmu.edu/~rwh/pfpl.html

Course Content

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This is a programm n the

Read a https://eduassistpro.github.io/

Write your own programming languages; and

Reason about programming larged less in a rigord assist_pro

Why Read?

The Assignment Project Exam Help

- Design
- Developm
 Safety and https://eduassistpro.github.io/
- Performance

The Obvious Add WeChatedu assist_pro computing discipline.

Why Write?

You may so incommended the proper of the state of the sta

However.

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Learn how to make a PL properly and save yourself and your colleagues from headaches.

Why Write?

You Ays inglanameental-perpental inglanguage in the source of the source

However...

Every company https://eduassistpro.githubingio/some task, often e

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Learn how to make a PL properly and save yourself and your colleagues from headaches.

Why Write?

You Ayou inglanamental-propare of this large mile large many kelebertatell in

However...

Every company https://eduassistpro.github.io/

Example

XSLT, Perl scripts of decessing exclinate edu_assist_pro

Learn how to make a PL properly and save yourself and your colleagues from headaches.

Why Reason?

Programa is in the project of a project of a project of a post in the p to:

- Design lang oblins.
- Make langhttps://eduassistpro.github.io/ programs. COMP4161, COMP2111, COMP6721
- Develop algorithms to vird bugg automatically CDM assist pro
 Rigorously analyse optimisations and other program

Why Reason?

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These tools are also very important for the pursuit of research in programming languages.



Computers can't typically execute source code directly.

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Computer
Machine Code









The first stage of a compiler is called a *lexer*, which, given an input string of source code and a string of source code and a string of source whitespace or comments.

```
https://eduassistpro.github.io/
int foo https://eduassistpro.github.io/
int i;
i = ii;
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Ident "i"

Ident "i"
```

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```
Example (C)
int foo () https://eduassistpro.github.io/
  int i;
                 Ident "int"
  i = 11:
                       assist_pro
                 Ident "i"
  return i:
```

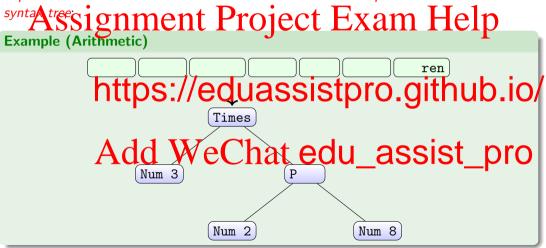
A parser converts the stream of tokens from the lexer into a parse tree or abstract syntaAtreesignment Project Exam Help

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A parser converts the stream of tokens from the lexer into a parse tree or abstract



Grammars

The structure of lexemes expected to produce certain parse trees is called a grammar. Assignment Project Exam Help

C function definiti

- https://eduassistpro.github.io/
- a possibly empty sequence of arguments, enclosed in pa
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Conclusions

This kind of definition is way too verbose and too imprecise to specify an implementation.

Grammars

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Example (Michael Brammar for E) roject Exam Help

C function definiti

- an identification an identification an identification an identification and identification and identification and identification are identification and identification and identification are identification are identification and identification are identification and identification are identification are identification and identification are identificat
- a possibly empty sequence of arguments, enclosed in pa
- a statement (function we Chat edu_assist_pro

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C function definiti

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Conclusions

This kind of definition is way too verbose and too imprecise to specify an implementation.

Backus-Naur Form

Specify grammatical productions by using a bare-bones recursive notation. Non-Arginalign in the Project Extan Help Example (C subset) https://eduassistpro.github.io/ while (expr) Asta Weight are edu_assist_pro Ident = expr $locDec ::= Ident_1 Ident_2;$ args ::= ε ····





