

Final Project Ideas

Wed, Nov 4, 2009

List of ideas

These are the ideas that were turned in on Mon Nov 2.

- Number of people not specified
 - Converting from assembler to a higher-level language
 - Convert some higher-level language program to equivalent assembler program
- Create calculator in assembler
- Single project or small group of 2
 - Have a 15 by 15 maze
 - # is a wall, “ “ (space) is an empty space, @ is the player, \$ is the treasure, D is a locked door, K is a key
 - # #
@
###
 - Output on screen shows the 8 spaces surrounding player (or whole map?) [what the @ sees]. Goal is to get treasure. Player cannot pass through #. Player cannot pass through D until player gets a K
- Leaned toward individual projects
 - Calculator in assembler (“we liked this one the most”).
 - Higher-level language to assembler
 - Give us a task and have us write code for it.
- I’d like to do the final project in a higher-level language
- Higher level programming to simulate some lc3
- Or a calculator
- Assembler or simulator or validator written in a high-level language.
- Translate Java code to assembly
- Implement LC-3 in Java (or part of it)
- Make a game in LC-3
- Map out something with computer organization
- Individual project: calculator with mathematical functions
- Maze
- Blackjack
- Tic-tac-toe
- Slots
- Rock/paper/scissors

Final Project Ideas

Summary Outline on 2009-11-04

- **Write an assembler program**
 - Give us a task and have us write code for it.
 - Write calculator in assembler (suggested 3 times)
 - Calculator for mathematical functions
 - Convert some higher-level language program to equivalent assembler program
 - Write a Game in assembler
 - Rogue with a 15 by 15 maze
 - Maze
 - Blackjack
 - Tic-tac-toe
 - Slots
 - Rock/paper/scissors
 - Adventure
- **Write a higher-level language program that illustrates some aspect of computer organization**
 - Write simulator for subset of LC-3
 - Write assembler for subset of LC-3
 - Write assembler and simulator for simple machine (not the LC-3)
 - Write compiler for small subset of some higher-level language
 - Translate Java code to assembly