

EECS Discussion Week5

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Midterm Evaluation

- Voluntary midterm evaluation
 - Monday 9 a.m ~ Friday 9 p.m.

Structured Programming

- Sequential execution in C
- Indentation increases readability
- Conditional Statements
 - if
 - if-else
 - switch
- Repetition Statements
 - while
 - do-while
 - for

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Programming == Thinking !!!

- Programming ...
 - ... is *not* a *mechanic procedure!*
 - ... *requires thinking!*
- **Program ...**
 - ... *writing requires an intelligent human being!*
 - ... *execution can be done by a dumb machine.*
- **General programming steps:**
 - 1. *Understand the problem*
 - 2. *Define the input and output data*
 - 3. *Develop the algorithm (e.g. use pseudo code)*
 - 4. *Define the control flow (e.g. use control flow charts)*
 - 5. *Write the program in programming language*
 - 6. *Test and debug the program*

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Assignment 5

- Part 1: Roulette Game
 - Structure is quite the same as the “Guess the age game”
- Part2: Monte Carlo Calculation of Pi
 - Use rand() function to generate multiple random numbers.

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