

# Static Analysis

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- We'll be using Visual Studio to compile programs (focus on C)

Tools

- Disassemblers
  - IDA Pro (Freeware)
  - HIEW
  - HT-Editor
  - PE-Bear
  - Binary Ninja

# Let's write something

Its in the folder

# Compile all the provided code

- Control flow
  - For-loop
  - While-loop
  - Do-while loop
  - Goto statement
- Arrays
- Structures
- Unions

- You might want to compile with different calling convention
- Play around with the optimization in the compiler

# Disassembly

Using IDA Pro (Freeware)



- Observe the code in assembly that compiled with different type of calling convention
- Understand the assembly structure on each of the code that written
- You don't have to run the file to see all of this