**Problem Project Statement**

Problem Choice: Chapter 8 Problem 7, **Morse Code (with stretch goals)**

Stretch goals:

Allow the user to input text and generate morse code output in a text file

Allow input of either text or morse code and output the opposite

Auto-detect if the input is morse code or English

Allow for other decoding methods: ceaser cipher, rail fence cipher, or atbash cipher.

Team Members:

**Cody Wilson**

**Nathaniel Davidson**

**Todd Defluiter**

Approach and Design Layout:

Tackle functioning tree functionality first.

Get functions regarding insert, search, and delete working for generic trees.

Create an inherited tree called morse\_tree

File reading/writing functionality with the search functions in morse\_tree

User input/output functionality with the search functions in morse\_tree

Project Management:

Individual assignments:

Nathaniel Davidson – Write code for creating/filling morse\_tree.

Todd Defluiter – Writing the simple base\_tree class, and it’s simple functions.

Cody Wilson – Write search function