



CS 410 Assembly to C++ Guidelines and Rubric

Overview

In previous activities, you have converted C++ code into assembly code. In this activity, you will reverse the process and demonstrate your ability to convert assembly code into C++ code. You will complete and submit the [Assembly to C++ Activity Template Word Document](#).

Prompt

For this activity, you will analyze three examples of assembly code. For each example of assembly code, you must address the following rubric criteria:

1. Convert the assembly code into C++ code.
 - Use the Assembly to C++ Activity Template to complete this step.
2. Explain the functionality of the converted C++ code.
 - Use the Assembly to C++ Activity Template to complete this step.
 - Consider which blocks of assembly code are skeleton code versus actual parts from the C++ program.

What to Submit

Assembly to C++ Template

This should be a Word Document. Use the Assembly to C++ Activity Template to convert the three examples of assembly code and explain the function of the converted assembly to C++ code.

Assembly to C++ Rubric

| Criteria | Exemplary (100%) | Proficient (85%) | Needs Improvement (55%) | Not Evident (0%) | Value |
|-------------------------------------|--|--|---|--|-------|
| Assembly to C++ Conversion | Exceeds proficiency in an exceptionally clear, insightful, sophisticated, or creative manner | Converts each block of assembly code into C++ code with minimal errors | Shows progress toward proficiency, but with errors or omissions; areas for improvement may include converting each block of assembly code into C++ code with fewer errors | Does not attempt criterion | 45 |
| Explanation of Functionality | Exceeds proficiency in an exceptionally clear, insightful, sophisticated, or creative manner | Explains the functionality of the C++ code with minimal errors and adequate detail | Shows progress toward proficiency, but with errors or omissions; areas for improvement may include explaining the functionality of the C++ code with minimal errors and richer detail | Does not attempt criterion | 45 |
| Articulation of Response | Exceeds proficiency in an exceptionally clear, insightful, sophisticated, or creative manner | Clearly conveys meaning with correct grammar, sentence structure, and spelling, demonstrating an understanding of audience and purpose | Shows progress toward proficiency, but with errors in grammar, sentence structure, and spelling, negatively impacting readability | Submission has critical errors in grammar, sentence structure, and spelling, preventing understanding of ideas | 10 |
| Total: | | | | | 100% |