

# CS 332 - Summary Report

## Problem Statement:

For this assignment you will produce a short report on one of the topics listed below. All topics shall be approved by the instructor.

1. *Parallel and Distributed Computation:* For this topic, describe some aspect of the multi-process or multi-processor paradigm. Example topics are: distributed processing paradigms (such as the Message Passing Interface), parallel or distributed machine architectures (such as a Beowulf cluster), a description of a common language used in a parallel or distributed system, a description of common parallel algorithms, or a description of common synchronization schemes.
2. *Language:* For this topic, describe one of the lesser known programming languages. Identify the language paradigm, brief history, communities that use the language, and how the language achieves declaration, selection, repetition, and assignment (if appropriate for the language). Non-procedural, functional, or parallel languages are best suited for this topic. Languages developed to accomodate specific communities, such as Promela, are also well suited to this topic. The language must be Turing Computable (i.e. no HTML or CSS).
3. *Compilation:* For this topic, describe in brief the compilation process, then provide a fuller description of some portion of that process. For example, the paper may describe standard compiler optimizations, or provide an overview of a specific compiler's capabilities and use.

**Submission and File Formats** The reports are to be turned in via Canvas, in MS Word or PDF format. The file name must be CS332\_Comp\_LastnameFirstname.docx or CS332\_Comp\_LastnameFirstname.pdf. We will perform a brief review of your document in class and/or during office hours. No report will be accepted for grading without review.

**Paper Format:** There is not a required format for the report. Use your experience. You do not need a title page, but do need to include a title, and your name. Abstracts and table of contents are discouraged as they are not normally part of short papers. A bibliography is required. Do not use web references, though textbooks and published papers that are accessed online are acceptable. Cite your references in a standardized style of your choice.

**Rubric:** Your grade will be assessed per the rubric in Table 1.

Table 1: Grading Rubric

<b>Item</b>	<b>Points</b>
Quality of writing (grammar, terminology, structure)	20
Topics introduced are fully explored, or incomplete topics noted.	35
Technical terms are used correctly and consistently.	10
Citations used correctly.	10
Bibliography uses standard format and details are correct.	5
Totals	80