**Programming Project Report**

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Date: 9/9/19

**Academic Integrity Statement:** I pledge that I have neither given nor received unauthorized help on this programming assignment.

**Problem Statement:**

The goal of this programming assignment was to provide some experience with input/output commands and experience with basic mathematical calculations in C++. The program had to calculate how much a given piece of rebar weighed when given length and radius, and how many bundles of rebar a truck with a weight limit of 42,000-46,000 could carry.

Our program inputs were:

* Number of rebar pieces in a bundle & weight limit of truck
* The diameter of the rebar and the radius of the rebar

Our program outputs were:

* The weight of one piece of rebar
* How many bundles of rebar can fit on the truck given the weight limit

For error handling, it was not required to check if the input given was a valid input. They could have given us an impossible value for any of the inputs, but mathematically, the output values would have been correct, yet also impossible.

**Design:**

For the design for this program, a relatively standard design was implemented when coding.