Alleghany International Manufacturing

Cone/Frustum Bulk Data Processing Version

You are not required to submit a design for this project. However, you are encouraged to complete some design process prior to writing code. Below are additional pseudocode terms, such as loops, that will be necessary.

- **START**
- **INPUT**
- **OUTPUT**
- **CALCULATE**
- **IF** *condition*, **THEN** *statement(s)*
- **IF** *condition*, **THEN** *statement(s)*; **OTHERWISE,** *statement(s)*
- **IF** *condition*, **THEN** *statement(s)*
  ELSE IF *condition*, **THEN** *statement(s)*
  ELSE IF *condition*, **THEN** *statement(s)*
  ...
  ELSE IF *condition*, **THEN** *statement(s)*
  OTHERWISE: *statement(s)*
- **SWITCH** value:
  CASE *value*: *statement(s)*
  CASE *value*: *statement(s)*
  ...
  CASE *value*: *statement(s)*
  OTHERWISE: *statement(s)*
  END SWITCH
- **WHILE** *condition*
  statement(s)
  END WHILE
- **STOP**

The SWITCH term is paired with its own END SWITCH term, as is the WHILE term. If you need to group multiple statements together within any of the other terms above, use

```
BEGIN
   statement
   ...
   statement
END
```

Note that BEGIN and END are not used to enclose multiple statements under a CASE term

In the pseudocode you will not be formally declaring variables and constants like you would in the C++ source code. However, this is an opportunity to introduce names for variables and constants. These names will become C++ identifiers in your source code. You should use the CALCULATE term to assign values to constants and to initialize variables. There are many potential constants in this project. You should study the problem description carefully to identify these constants and include them in your pseudocode.