# C++ Programming Assignment (#05)

Date: Apr. 7, 2016
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Due date: Apr. 13, 2016

## Programming Projects

1. Write a program to compute the score of a figure skating performance of three players. For each player, the program takes scores (from 1 to 10) from seven referees and computes the average of five scores excluding the highest and the lowest score. After finishing all the computations, the program announces the gold, silver, and bronze medal player. **Define at least one class**.

**The sample dialogue:**
```
Player 1:
Name: Kim
Input seven scores: 10 8 9 9 9 7 10


Player 2:
Name: Mao
Input seven scores: 9 7 9 7 6 9 8


Player 3:
Name: Sotnikova
Input seven scores: 8 9 10 6 7 8 9


Ranking:
```
| | | |
|---|---|---|
| 1. Kim | 9.0 |
| 2. Sotnikova | 8.2 |
| 3. Mao | 8.0 |

2. Define a class called `IceCreamSundae` that has member variables to track the flavor of an ice cream sundae (either strawberry, vanilla, or mint) along with the size (either small, medium, or large) and the number of toppings. Create two void functions, `receiveOrder()` and `outputDescription()`. The former receives an order from a user and the latter outputs a textual description of the ice cream sundae object. Also include a function, `computePrice()`, that computes the cost of the ice cream sundae and returns it as a double according to the following rules:

    Small sundae = $10 + $2 per topping
    Medium sundae = $14 + $2 per topping
    Large sundae = $17 + $2 per topping

This program continues to run until the user want to quit. **[Modified from Project 7, Chapter 6, Absolute C++ 5ed.]**

**The sample dialogue:**

```
Welcome to PNU Ice Cream!!

Which flavor? (0. Strawberry  1. Vanilla  2. Mint) 0
What size? (0. Small  1. Medium  2. Large): 2
Number of toppings? 2
```
---
```
Large Strawberry ice cream sundae with 2 toppings
Price: $21
```
---
```
More? (y/n) y

Which flavor? (0. Strawberry  1. Vanilla  2. Mint) 1
What size? (0. Small  1. Medium  2. Large): 1
Number of toppings? 1
```
---
```
Medium Vanilla ice cream sundae with 1 toppings
Price: $16
```
---
```
More? (y/n) n

Thank you!!
```