Object Oriented Programming Fall 2017

Lab Activity

Instructor: Asma Sanam Larik Date: 25th Aug 2017

1. The number 6 is a truly great number. Given two int values, a and b, display true if either one is 6 or if their sum or difference is 6 and false otherwise.

Example:

Input: a=6 b=4

Output: true

1. An ***Armstrong number*** is a number of 3 digits that is equal to the sum each of its digits raised to the power 3. For example 153 equals 13+53+33 = 153. Write a program that will take a number as input and print “It is an Armstrong Number” or “It is not an Armstrong Number”.
2. You're thinking about going with your friends to watch a cricket match. **Write** a program that takes the **cost** of a ticket in rupees, and the **rating** of match out of 5. The program should print how interested you are “very interested”, “sort-of”, or “not interested” as output. Use the following criteria:

* You like bargains. Any ticket that costs less than Rs. 100 is one that you want to see very much.
* You dislike expensive matches. You are not interested in seeing any match that costs Rs. 200 or more, unless it got 5 stars (and even then, you are only sort-of interested).
* You are sort-of interested in watching match costing between Rs.100 –Rs. 150 that also got between 2-4 stars inclusive.
* You are not interested in seeing any other match not described previously.

1. Write a program to read a list of nonnegative integers and to display the largest integer, the smallest integer, and the average of all the integers. The user indicates the end of the input by entering a negative sentinel value that is not used in finding the largest, smallest, and average values. The average should be a value of type double so that it is computed with a fractional part.

----------------------------------------- Good Luck!!-----------------------------------------------