

There are two parts to the assignment. Please check the requirements carefully, and make sure your solution is well tested. When done please send me your code and a list of test cases for your code. You can write your code and execute it (test it) using this site: https://www.tutorialspoint.com/execute_tcl_online.php. Feel free to include some comments in your code explaining things as you go.

Part 1:

Write a program that prints the numbers from 1 to 121. But for multiples of three print "Smarty" instead of the number, and for multiples of five print "Pants". For numbers which are multiples of both three and five, print "SmartyPants".

Part 2:

Write a program which accepts a list of real numbers (or integers), and then calculates and displays the median, the average and the sum of the numbers. Then the program should generate and display a new list containing the numbers in descending sorted order. Finally, the program should generate and display two new lists. The first should contain only the numbers that have both digits "1" and "5" in it. The second should contain the numbers with either digits "1" or "5". Regular expressions should be used for the final part.

Good luck and I hope you have a bit of fun with this exercise.