Assignment Week 5 CT103 C Programming

Submission:

Zip your C files into one .zip file for submission on Blackboard

Submit before you leave the lab (even if you don't get it fully working!)

You <u>must</u> be marked present by the lab tutor, and they <u>must</u> see your finished program before you leave

The tutors are there to help you - don't hesitate to ask for help

Part 1

- Write a program that allows the user to enter a list of integers
- The integers must be stored in an array
- The size of the array is 30
- To stop inputting integers, the user enters the value 999 (do not store this)
- The user cannot enter more than 30 integers
- The program calculates the average of the numbers input, and prints it out to 2 decimal places
- The program also prints out the Maximum and Minimum values input by the user
- Finally, the program prints out the list of numbers input <u>backwards</u>
- Hints:
 - 1. Remember the break; statement to get out of a for loop
 - 2. To avoid truncating the result of integer division, convert them to doubles first, like so:
 - result = (double) i / (double) j;
 - Where result is a double, and i and j are integers
 - This kind of conversion is called CASTING

Sample Input / Output

```
C:\Windows\system32\cmd.exe
C:5.
Enter numbers (999 to end input)
#1:
#2:
#3:
#4:
#5:
      11
16
      8
       3
Average: 13.83
      45
Max:
Min :
_____________________________________
#6:
      3
#5:
      Ø
#4:
      8
#3:
      16
#2:
      11
#1:
      45
_______
Press any key to continue . . .
```