Lab #8

Programming and Algorithms

1. Take the existing Bubblesort code:

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| # PROGRAM Bubblesort:Age = [44, 23, 42, 33, 18, 54, 34, 16]for outerindex in range(0,len(Age)):# DO for index in range(0,len(Age)-1): # DO if Age[index+1] < Age[index]: # THEN TempValue = Age[index+1] Age[index+1] = Age[index] Age[index] = TempValue # ENDIF; # ENDFOR;# ENDFOR;print(Age)# END. |

 And add in a bit of error checking, so at the start of the code, add in:

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| ################### ERROR CHECKING ###################c = str(input("Do you want error checking on? (y/n)"))if c == 'y':# THEN MyErrorCheck = Trueelse: MyErrorCheck = False# ENDIF; |

And add in the following code at the swap in the code:

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|  if MyErrorCheck == True: # THEN print(">> We are in cycle number:", outerindex) print(Age) print(">> We are swapping", Age[index], "at location", index, "with", Age[index+1],"at location",index+1 )  # ENDIF; |

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| e-mail me a completed solution to each of the above programs in a Word document, and include Lab #1-7 in this document also. e-mail to Damian.X.Gordon@TUDublin.ie with subject heading “DT249 PaA Lab #1-8” |