

Further extension to new chatGPT data set

Inline with the failed execution of data (as per excel document:
30032025/SummaryRange/5/4/Output.xlsx

TEST CASE: Due to failed test case such as below, I revisited logic in my code

CHECKING: 40.1 with 35.1
40.199997
40.0
40.1f, 40.1f, 35.1f, 35.2f, 35.3f, 35.2f, 35.1f, 85.6f, 85.5f, 85.4f, 85.3f, 85.2f, 19.6f, 19.7f, 19.8f, 19.9f, 20.0f, 19.9f, 19.8f, 63.5f

6Writing Standalone: 40.1
CHECKING: 35.1 with 35.2
35.199997
35.0
CHECKING: 35.2 with 35.3
35.3
35.100002
CHECKING: 35.3 with 35.2
35.399998
35.2
28Writing range: 35.1-> 35.3
Establishing start: 35.3
CHECKING: 35.2 with 35.1
35.3
35.100002
CHECKING: 35.1 with 85.6
35.199997
35.0
2Writing range: 35.3-> 35.1
CHECKING: 85.6 with 85.5
85.7
85.5
28Writing range: 35.3-> 85.6
Establishing start: 85.6
CHECKING: 85.5 with 85.4
85.6
85.4
CHECKING: 85.4 with 85.3
85.5
85.3
CHECKING: 85.3 with 85.2
85.4
85.200005
CHECKING: 85.2 with 19.6
85.299995
85.1
2Writing range: 85.6-> 85.2
CHECKING: 19.6 with 19.7
19.7
19.5
CHECKING: 19.7 with 19.8
19.800001
19.6
CHECKING: 19.8 with 19.9
19.9
19.699999
CHECKING: 19.9 with 20.0
20.0
19.8
CHECKING: 20.0 with 19.9
20.1
19.9
28Writing range: 85.6-> 20.0
Establishing start: 20.0
CHECKING: 19.9 with 19.8
20.0
19.8
CHECKING: 19.8 with 63.5
19.9
19.699999
3Writing range: 20.0-> 19.8
599Writing standalone: 63.5
[40.1, 35.1->35.3, 35.3->35.1, 35.3->85.6, 85.6->85.2, 85.6->20.0, 20.0->19.8, 63.5]

This is fine

This is commence descending

Issue is here, it has performed a write here. It can be seen that 85.6 -> 85.5 is commence of another

So issue is related to setting one or both of these variables to true.. I am going to insert debugging information on when the variables were set...

We can see first hand in principle, having these values set to true has correlation to the new checking whatsoever.... So we have to find where to negotiate and set them back to false.... Logic suggests when performing 2Writing range..... In principle it surely makes sense to set them to false and every time the range is written out..

```
161 if (counter==0){
162 {
163 if (isFirstOccurrenceAscendingChainNoTransition || isFirstOccurrenceAscendingChain)
164 {
165 end=String.valueOf(nums[k]);
166 sm.add(start+"->" + end);
167 System.out.println("28Writing range: " + start + "-> " + end);
168 }
169 start=String.valueOf(nums[k]);
170 System.out.println("Establishing start: " + start);
171
172 if (k==nums.length-1)
173 {
174 System.out.println("2Writing Standalone: " + start);
175 sm.add(start);
176 }
```

CHECKING: 35.1 with 35.2
35.199997
35.0
This is start: 40.1
1BUT ACKNOWLEDGED START: 35.1
*****isFirstOccurrenceAscendingChainNoTransition*****: set to true
CHECKING: 35.2 with 35.3
35.3
35.100002
This is start: 35.1
DO NOTHING*****
2BUT ACKNOWLEDGED START: 35.1
*****isFirstOccurrenceAscendingChain*****: set to true
CHECKING: 35.3 with 35.2
35.399998
35.2
28Writing range: 35.1-> 35.3

//ascending going forward, does not consider number before
if (Math.abs(nums[k] - (nums[k+1] - difference))<epsilon)
{

//ascending going forward
if ((Math.abs(nums[k] - (nums[k-1] + difference)) < epsilon)

//descending going back
&& (Math.abs(nums[k] - (nums[k+1] - difference))<epsilon)
{

Output after performing
isFirstOccurrenceAscendingChain=false;
isFirstOccurrenceAscendingChainNoTransition=false;

WE CAN SEE THE SAME OVERLAPS...
ISSUE RESOLVED

KEY
overlap

[40.1, 35.1->35.3, 35.3->35.1, 85.6->85.2, 19.6->20.0, 20.0->19.8, 63.5]
S, A, D, D, A, D, S

40.1f, 40.1f, 35.1f, 35.2f, 35.3f, 35.2f, 35.1f, 85.6f, 85.5f, 85.4f, 85.3f, 85.2f, 19.6f, 19.7f, 19.8f, 19.9f, 20.0f, 19.9f, 19.8f, 63.5f

As oppose to make any other changes to my code, I will re-run the code again and populate excel workbook