

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]

if (counter==0)  
{  
if (isFirstOccurrenceAscendingChainNoTransition || isFirstOccurrenceAscendingChain)  
{  
end=String.valueOf(nums[k]);  
sm.add(start+"->"+end);  
System.out.println("28Writing range: " + start + "-> " + end);  
start=String.valueOf(nums[k]);  
System.out.println("Establishing start: " + start);  
if (k==nums.length-1)  
{  
System.out.println("2Writing Standalone: " + start);  
sm.add(start);  
}}}

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  
35.1  
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)  
&& (Math.abs(nums[k] - (nums[k+1] - difference))<epsilon))  
{  
System.out.println("599Writing Standalone: " + start);  
sm.add(start);  
}}}

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, A, ◇, ◇, 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