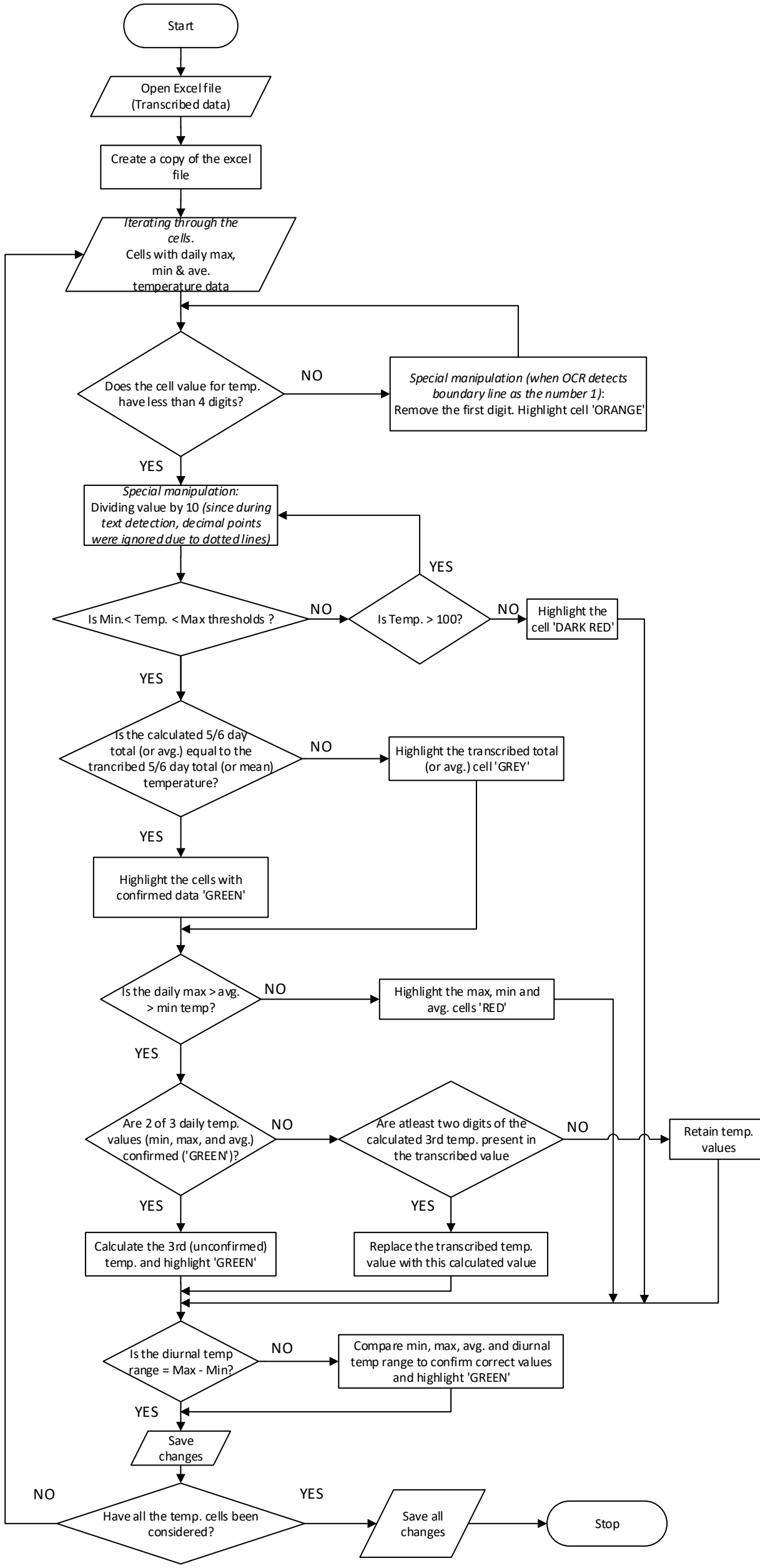
Start
Open Excel file (Transcribed data)
Create a copy of the excel file
Iterating through the cells. Cells with daily max, min & ave. temperature data
Does the cell value for temp. have less than 4 digits?
NO
Special manipulation (when OCR detects boundary line as the number 1): Remove the first digit. Highlight cell 'ORANGE'
YES
Special manipulation: Dividing value by 10 (since during text detection, decimal points were ignored due to dotted lines)
Is Min.< Temp. < Max thresholds ?
NO
Is Temp. > 100?
YES
NO
Highlight the cell 'DARK RED'
YES
Is the calculated 5/6 day total (or avg.) equal to the trancribed 5/6 day total (or mean) temperature?
NO
Highlight the transcribed total (or avg.) cell 'GREY'
YES
Highlight the cells with confirmed data 'GREEN'
Is the daily max > avg. > min temp?
NO
Highlight the max, min and avg. cells 'RED'
YES
Are 2 of 3 daily temp. values (min, max, and avg.) confirmed ('GREEN')?
NO
Are atleast two digits of the calculated 3rd temp. present in the transcribed value
NO
Retain temp. values
YES
YES
Calculate the 3rd (unconfirmed) temp. and highlight 'GREEN'
Replace the transcribed temp. value with this calculated value
Is the diurnal temp range = Max - Min?
NO
Compare min, max, avg. and diurnal temp range to confirm correct values and highlight 'GREEN'
YES
Save changes
NO
Have all the temp. cells been considered?
YES
Save all changes
Stop