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<u>**SELF DESCRIBING NUMBER PSEUDOCODE**</u>

Step 1: Start

Step 2: READ "in" file

Step 3: Check if file is empty

Step 4: Declare numberOfTestCases

Step 5: Read first line of file and initialize numberOfTestCases to first line

Step 6: Loop over the numberOfTestCases

Step 7: Declare variable to store number

Step 8: Read the next line of the file and initialize number to that line

Step 9: Check length of number

Step 10: Declare and initialize variable i to 0

Step 11: Start loop

Step 12: Declare and initialize count to 0

Step 13: Declare and initialize numOfOccurence to index i of number

Step 14: Loop over number

Step 15: Count how many times a digit occurs in the number

Step 16: Increment count

Step 17: If count is not equal to numOfOccurence, number is not a self describing number

Step 18: DISPLAY "Not self-describing"

Step 19: If i is less than length, go back to step 12

Step 20: DISPLAY "Self-describing"

Step 21: Stop