Matric No.: 222499

Name: Oladokun Tosin Emmanuel

https://github.com/OLADISEA/School-Project2

Pseudo code

step 1: Start

step 2: Declare casenum to store the integer from the in file

step 3: Initialize variables casecount = 0

step 4: Read the casenum as an integer from the .in file

step 5: create a pointer variable called file to open and access the .in file

step 6: if(file == Null), Display "Error accessing the file and go to step 29

step 7:If(casecount>= casenum), then go to step 30

step 8: Declare num, remainder, count, count2 and length

step 9: Read the digits from the .in file

step 10: store the digit in num

step 11: The maximum number of the digits should be less than 1010.

step 12: Declare and initialize digit to be equal to num

step 13: if(digit<= 0),then go to step 16

step 14: digit = digit/10

step 15: Increment count by 1,go to step 13

step 16: Declare arr and arr2

step 17: if count2>=length, then go to step 26

step 18: Declare remain,pick and initialize j = length, reverse= length - 1, remainder = num, i = 0.

step 19: If(i>=j),then go to step 23

step 20: initialize remain= remainder%10

Step 21: set the index of arr2 = remain

Step 22: remainder = remainder/10

step 23: if remain is not equal to count2, go to step 17

Step 24: increment pick by 1,then decrement reverse by 1.

step 25: set the value of count2 in arr = pick, go to step 17

step 26: If(i >=length ), then go to step 29

step 27: if(value of i in arr == value of i in arr2 and i == length),

Display "self describing", go to step 29

step 28 if(value of i in arr!= value of i in arr2),

Display "not self describing".

step 29: increment casecount by 1

step 30: close the file

step 31: Stop