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# **DEPARTMENT: COMPUTER SCIENCE**

# **COURSE: CSC 235**

**Problem C. Self Describing Numbers**

**PSEUDOCODE**

Step1. Start

Step2. Open the file using the fopen function

Step3. Declare testcase, num\_array, count, len, and set char self\_describing as “T”

Step4 Read the testcase as an integer from the self.in file

Step5 Loop through the number of testcases to read through each line

Step6 Declare char num to only accept exceeds characters of 100

Step7 Read the line and store in variable num

Step8 Get the length of the string in num and store in len

Step9 Using len variable to iterate through each character

Step10 store the iterated character in an array num[j]

Step11 create a nested loop (if step is less than len, increment step by 1 and I is less than len, increment I by 1)and store as num\_array[i]

Step12 if num\_array[i] = step increment count by 1

Step13 if count is equal to num\_array[step] it is a self-describing number else it is not a self-describing number.

Step14 if count is equal 0 and self-describing is not “F” it is a self-describing number