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CSC 235

Self describing numbers pseudocode

1. START
2. Open the file “Selfdescribing.in” in the root directory
3. Declare testcases, number\_array, count, len, i
4. Read first line of the file as number of test cases
5. Initialize the value of i as 0
6. If i is less than testcases then proceed, if not skip to step 17
7. Read each test case line and check the length of the string
8. Run a for loop just to append each character into an array
9. Run a loop to read through each integer in the array and initialize trial to 0, if trial < len then proceed if not skip to step 16, this will be the outer loop.
10. Run an inner loop and initialize i to 0, if i < len then proceed.
11. For each number\_array[i], check if the index value is equal to the corresponding value of trial initialized in step 9. if it is then increment the count.
12. Increment i and go back to step 10
13. Check if the value of count is equal to the corresponding index value of number\_array ”number\_array[trial]”
14. If count == number\_array[trial], self\_describing == T, continue else self\_describing == F then break and print “Not self-describing”
15. Increment trial and go back to step 9
16. If self\_describing is not equal to F then print “Self describing”
17. Close the file
18. END

[CSC-235-Assignment/Assignment 3 at main · LouisTemi/CSC-235-Assignment (github.com)](https://github.com/LouisTemi/CSC-235-Assignment/tree/main/Assignment 3)