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QUESTION 1

Step 1 START

Step 2 Open file to read

Step 3 Check if file is empty

Step 4 if file is empty display “file is empty”, end program, else move to the next stage.

Step 5 Read the first file to get the number of times the code would run

Step 7 for loop to run N number of times

Step 8 Read next line in file to know the number of files checking

Step 9 Read the next line of code that contains the first filename

Step 10 create a for loop to run n number of times to compare all filenames with first filename

Step 11 then create a While loop to check for the difference in the filename

Step 12 Create for loop to delete duplicate file

Step 13 Create for loop to compare the values in filename

Step 14 if file name is equal to the lowest file name keep file

Step 15 Else delete the file

Step 16 Stop

QUESTION 2

Step 1: Start

Step 3: Open file to read

Step 4: check if file is empty

Step 4: if file is empty, Display “This file is empty”, end program, else go to step 5.

Step 5: Read first line of file as Testcases

Step 6: Create a for loop to run Testcases number of times

Step 7: read the next lines of code and store as a string.

Step 8: create a loop to run through the length of the string.

Step 9: Then store the value of the strings as an integer in a variable

Step 9: create another loop to run through the length of string Step 9: Check if file is a self-describing number

Step 10: If count is not equal to the value of the index in the string , print out not self-describing”

Step 11: If count is equal to the value of the index in the string , print out self-describing”

Step 12: End