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PYTHON:-
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sorted() function takes a list and returns the sorted list (obv) but we can customise how
it sorts the list and this is where its important
list = sorted(list, key = lambda x: _____) in the _____ you write what the value upon
which you are sorting is NOTE that if you want to sort by multiple criteria then make the
lamda function return a tuple
FILES
reading files in python;-
with open("example.txt", "r") as file:
line = file.readline() # Reads the first line as a string
while line: #keep executing until line is empty ie file is over
       print(line)
OR use lines = file.readlines() => lines is a list of strings
OR content = file.read() => content is a string of the whole file content
How to read files with delimiter
with open(full path, mode='r') as file:
         csvfile = csv.reader(file,delimiter='-')
         for line in csvfile:
Writing files in python:-
with open("example.txt", "w") as file:
  file.write("Hello, World!\n")
  file.write("This is a test file.\n")
lines = ["First line\n", "Second line\n", "Third line\n"]
with open("example.txt", "w") as file:
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## HOW TO READ COMMAND LINE ARGUMENTS

file.writelines(lines)

with open("example.txt", "a") as file: file.write("This line is appended.\n")

Append to files:-

import sys first and then we can use sys.argv to get it

sys.argv is a list sys.argv[0] is name pf python program After that sys.argv[n] is nth argument

If the input is redirected from a file like for example python3 playing\_with\_strings.py < q4-input.txt THEN we must use sys.stdin

input\_data = sys.stdin.read().splitlines()
then input\_data[0] is first line in file and etc.
then we can use split() to get the individual arguments

NOTE god tier use of list comprehension -> permuted\_string = ".join([string[i] for i in permutation]) OR

Took a dict and sorted based on the values totalData =  $\{k: list(v) \text{ for } k, v \text{ in sorted(totalData.items(), key=lambda } x: (-x[1][0], x[0]))\}$