Lecture 19 Exercises

CS 51P – Fall 2019

What gets printed when the following code is run?

def mystery(my\_dict):
 d = {}
 for i in my\_dict.keys():
 if my\_dict[i] in d:
 d[my\_dict[i]].append(i)
 else:
 d[my\_dict[i]] = [i]
 return d

def main():
 d = {"a":1, "b":2, "c":1, "d":0, "e":2}
 print(mystery(d))

main()

Write a function merge(d1,d2) that merges two dictionaries and returns a single dictionary containing all the (key,value) pairs from both input dictionaries.

Write a function plot\_ppm(filename) that takes the name of a ppm file and produces an image histogram for that file.

Write a function plot\_ppm\_color(filename, color) that takes the name of a ppm file and a color (“r”, “g”, or “b”) and produces an color histogram for that color based on the given file.