def categorize(vec):

unique = set(vec)

print("The total is {:d}".format(sum(vec)))

print("The average is {:.2f}".format(sum(vec)/len(vec)))

countVec = {}

for num in vec:

countVec[num] = countVec.get(num, 0) + 1

for num in unique:

print("There are {:d} {:d}'s'".format(countVec[num], num))

if \_\_name\_\_ == "\_\_main\_\_":

vec = []

num = input("Enter Number: ")

while num != 'done':

try:

num = int(num)

vec.append(num)

num = input("Enter Number: ")

except:

print("Enter a number\n")

categorize(vec)

