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CODE:

import re

b=[]

a=[]

file1=open("sample\_input.txt","r")

for l in file1:

temp1=l.split()

a.append(int(temp1[-1]))

b.append(" ".join(temp1[:-1]))

for i in range(1,len(a)):

for j in range(i+1,len(a)):

if(a[i]>a[j]):

t1=a[i]

a[i]=a[j]

a[j]=t1

t2 = b[i]

b[i] = b[j]

b[j] = t2

print(a)

print(b)

min=999999

for i in range(1,len(a)-a[0]-1):

if(a[i+a[0]-1]-a[i]<min):

min=a[i+a[0]-1]-a[i]

c=i

D=[]

for x in range (c, c+a[0]):

str1=b[x]+str(a[x])+"\n"

D.append(str1)

str1=""

print(D)

file2=open("sample\_output.txt","w")

file2.write("The goodies selected for distribution are \n")

for y in D:

file2.write(y)

str2="And the differene between the chosen with highest pay godie. and lower price is "+str(min)

file2.write(str2)

OUTPUT:

1)FOR 4 EMPLOYEES:

The goodies selected for distribution are

Fitbit Plus:7980

Microwave Oven:9800

Alexa:9999

Digital Camera:11101

And the differene between the chosen with highest pay godie. and lower price is 3121

2)FOR 6 EMPLOYEES:

The goodies selected for distribution are

Sandwich Toaster:2195

Cult Pass:2799

Scale:4999

Fitbit Plus:7980

Microwave Oven:9800

Alexa:9999

And the differene between the chosen with highest pay godie. and lower price is 7804

3)FOR 2 EMPLOYEES:

The goodies selected for distribution are

Microwave Oven:9800

Alexa:9999

And the differene between the chosen with highest pay godie. and lower price is 199