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

out\_file = open("output.txt","w+")

goodies={}

out\_list=[]

for f in in\_file:

toRead\_index\_price=f.index(":")

goodies[f[:toRead\_index\_price]]=f[toRead\_index\_price+1:].strip()

single\_prices=list(goodies.values())

single\_prices=[int(i)for i in single\_prices]

single\_prices.sort(reverse=True)

num\_of\_employees=int(input("Enter number of employees: "))

print("The number of employees: ",num\_of\_employees)

leng\_considered=(len(single\_prices)-num\_of\_employees)

for i in range(leng\_considered):

max\_price=single\_prices[i]

min\_price=single\_prices[num\_of\_employees+i]

if i == 0:

diff=max\_price-min\_price

idx\_choosen=i

elif (max\_price-min\_price)<diff:

diff=max\_price-min\_price

idx\_choosen=i

choosen\_prices=single\_prices[idx\_choosen:num\_of\_employees+idx\_choosen]

diff=max(choosen\_prices)-min(choosen\_prices)

cnt=0

for key,value in goodies.items():

single\_prices[cnt]

if int(value)in choosen\_prices and cnt<num\_of\_employees:

str1=key+": "+value

out\_list.append(str1)

cnt+=1

print("The goodies selected for distribution: ")

print(str1)

out\_file.write("\n")

for i in out\_list:

out\_file.write(i)

out\_file.write("\n")

out\_file.write("And the difference between the chosen goodie with highest price and the lowest price is ",)

print("And the difference between the chosen goodie with highest price and the lowest price is ",diff)

in\_file.close()

out\_file.close()