**Module 2**

**Clustering of testcases**

tot=0

tot2=0

k=0

p=1

ls=[]

ls2=[]

cluster1=[]

cluster2=[]

sum=0

x = [3,4,4,85,1,805,40,60,100,18,83,1]

c= [5,0,0,86,4,2149,140,94,234,24,208,1]

y = [[1,1,4,85,12,5152,253,52,305,34,302,1],[2,0,0,86,4,5635,197,124,321,33,315,1],[3,4,4,85,1,805,40,60,100,18,83,1],[4,0,0,86,5,3829,200,119,319,30,303,1],[5,0,0,86,4,2149,140,94,234,24,208,1]]

for i in y:

print i

for j in range(0, len(i)):

k = int(x[j]) - int(i[j])

d= int(c[j]) - int(i[j])

tot+=abs(k)

tot2+=abs(d)

print tot

print tot2

ls.append(tot)

ls2.append(tot2)

tot=0

tot2=0

print ls

print ls2

for j in range(0, len(ls)):

if ls[j]<ls2[j]:

cluster1.append(ls[j])

cluster2.append(ls2[j])

else:

cluster1.append(ls2[j])

cluster2.append(ls[j])

print "cluster1",cluster1

print "cluster2",cluster2

