n=int(input("Enter the no. of students\n"))  
if(n==0):  
 print("NO STUDENTS")  
 exit()  
nml=[]  
mrl=[]  
upl=[]  
i=0  
while i<n:  
 name=input("Name of Student: ").upper()  
 marks=int(input("Marks of Student: "))  
 update=int(input("Update in marks: "))  
 nml.append(name)  
 mrl.append(marks)  
 upl.append(update)  
 i+=1  
  
print("\n"\*100)  
  
for i in range(n-1):  
 for j in range(n-i-1):  
 if(mrl[j]<mrl[j+1]):  
 mrl[j], mrl[j + 1] = mrl[j + 1], mrl[j]  
 nml[j], nml[j + 1] = nml[j + 1], nml[j]  
 upl[j], upl[j + 1] = upl[j + 1], upl[j]  
  
print("\n\t\t\t\tORIGINAL RANK LIST:")  
  
print("\nName\t\t\t\t Marks\t\t\t\t Update\n")  
for i in range(n):  
 print("{0:20s}".format(nml[i]),"{0:3d}".format(mrl[i]),"{0:20d}".format(upl[i]))  
  
  
  
mrl=[mrl[x]+upl[x] for x in range(len(mrl))]  
max1=mrl.index(max(mrl))  
  
for i in range(n-1):  
 for j in range(n-i-1):  
 if(mrl[j]<mrl[j+1]):  
 mrl[j], mrl[j + 1] = mrl[j + 1], mrl[j]  
 nml[j], nml[j + 1] = nml[j + 1], nml[j]  
  
print("\n\n\t\t\t\tUPDATED RANK LIST:")  
print("\nName\t\t\t\t Marks\n")  
for i in range(n):  
 print("{0:20s}".format(nml[i]),"{0:3d}".format(mrl[i]))  
  
print("\nStudent with the highest marks:\n"+nml[0])  
print("Original rank: ",max1+1,"\nRanks jumped: ",max1)