#

n=int(input())

a=[]

for i in range(n):

L=list(map(int,input().split()))

a.append(L)

average=[]

for i in range(n):

s=sum(a[i])

avg=s/3

average.append(avg)

print("Average grades for each student:")

for i in range(n):

print(f"Student{i+1}:{average[i]:.2f}")

subject=["Math","Sci","Eng"]

m=[]

for i in range(3):

max=a[0][i]

for j in range(1,n):

if a[j][i]>max:

max=a[j][i]

m.append(max)

print("Highest grade in each subject:")

for i in range(3):

print(f"{subject[i]}:{m[i]}")

overall\_avg=sum(average)/len(average)

print(f"Overall class average:{overall\_avg:.2f}")