seyear = []

a=int(input("enter the no of student:"))

for i in range(a):

b = input("enter the student name:")

seyear.append(b)

print(seyear)

cricket = []

a = int(input("enter the no of student playing cricket:"))

for i in range(a):

b = input("name of student:")

cricket.append(b)

print("no of student r playing cricket:",cricket)

football = []

a = int(input("no of student playing football:"))

for i in range(a):

b = input("name of student:")

football.append(b)

print("no of student who r football:",football)

badminton = []

a = int(input("no of student playing badminton"))

for i in range(a):

b = input("name of student")

badminton.append(b)

print("no of student who r badminton:",badminton)

c = []

for i in cricket:

if i in football:

c.append(i)

print("student who play crick dn football:",c)

d = []

for i in cricket:

if i not in badminton:

d.append(i)

for i in badminton:

if i not in cricket:

d.append(i)

print("who play either crick or bad not both:",d)

e = []

for i in seyear:

if i not in cricket:

if i not in badminton:

e.append(i)

print("who dont play both:",len(e),":name of student:",e)

f = []

for i in cricket:

if i in football:

if i not in badminton:

f.append(i)

print("who play cick or foot but not badminton:",len(f),":name of student:",f)