n = int(input("Enter the number of elements of Set A : "))

SetA = set()

for i in range(n):

ele = int(input("Enter element : "))

SetA.add(ele)

print("Set A : ",SetA)

#insert element

ele1 = int(input("Enter element to insert : "))

SetA.add(ele1)

print("Set A after inserting ",ele1," ",SetA)

#remove element

ele2 = int(input("Enter element to remove : "))

SetA.remove(ele2)

print("Set A after inserting ",ele2," ",SetA)

#Search element

ele3 = int(input("Enter element to search : "))

if ele3 in SetA :

print("Element is in set.")

else :

print("Element is not in set.")

#Size

print("Size of Set A is ",len(SetA))

m = int(input("Enter no. of elements in Set B : "))

SetB = set()

for i in range(m) :

ele4 = int(input("Enter element : "))

SetB.add(ele4)

print("Set B : ",SetB)

SetC = SetA.union(SetB)

print("Union of Set A & Set B is ",SetC)

SetD = SetA.intersection(SetB)

print("Intersection of Set A & Set B is ",SetD)

SetE = SetA.difference(SetB)

print("Difference of Set A & Set B is ",SetE)