```
In [24]:
def UNION(list1, list2):
   UNION = []
    for item in list1:
       if item not in UNION:
            UNION.append(item)
    for item in list2:
        if item not in UNION:
            UNION.append(item)
    return UNION
def INTERSECTION(list1, list2):
    INTERSECTION = []
    for item in list1:
        if item in list2 and item not in INTERSECTION:
            INTERSECTION.append(item)
    return INTERSECTION
list1 = []
m = int(input("Enter number of elements : "))
for i in range(0, m):
   element = input()
   list1.append(element)
print(list1)
list2 = []
n = int(input("Enter number of elements : "))
for i in range(0,n):
   ele = input()
   list2.append(ele)
print(list2)
print(UNION(list1, list2))
print(INTERSECTION(list1, list2))
['AB', 'CD', 'EF', 'GH', 'IJ']
['AB', 'CD', '1', '2', '3']
['AB', 'CD', 'EF', 'GH', 'IJ', '1', '2', '3']
['AB', 'CD']
In [ ]:
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In []: