

Solution-1.

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A = eval(input())
B = int(input())
new = []
for i in A:
    if i[0] not in new:
        new.append(i[0])
dict = {}
for i in new:
    dict[i] = []
for i in dict:
    for j in A:
        if i == j[0]:
            dict[i].append(j[1])
dict2 = {}
i = 0
for i in range(len(dict)):
    for j in range(i+1, len(dict)):
        res = len(set(dict[list(dict)[i]]) & set(dict[list(dict)[j]])) / float(len(set(dict[list(dict)[i]])) + set(dict[list(dict)[j]])) * 100
        if 1 != j:
            dict2[i] = [round(res, 2), list[j], list(dict)[i]]
        i = i + 1
a = list(dict2.values())
for k in range(len(a)):
    if a[k][1] > a[k][2]:
        c = a[k][1]
        a[k][1] = a[k][2]
        a[k][2] = c
a.sort(key=lambda a: a[0], reverse=True)
A = []
for a in range(n):
    A += [a[a[1]], a[a[2]]]
Print(A)
```