

Ans 1:

```
K = eval(input())
P = int(input())
new = []
for i in K:
    if i[0] not in new:
        new.append(i[0])
det = {}
for i in new:
    det[i] = []
for i in det:
    for j in K:
        if i == j[0]:
            det[i].append(j[1])
    det2 = {}
    r = 0
    for i in range(len(det)):
        for j in range(i+1, len(det)):
            res = len(set(det[list(det)[i]])) &
                set(det[list(det)[j]])) / float(len(set(det[list(det)[i]])) |
                set(det[list(det)[j]]))) * 100
            if i != j:
                det2[r] = [round(res, 2), list(det)[j], list(det)[i]]
            r = r + 1
    a = list(det2.values())
    for m in range(len(a)):
        if a[m][1] > a[m][2]:
            c = a[m][1]
            a[m][1] = a[m][2]
            a[m][2] = c
    a.sort(key = lambda a: a[0], reverse = True)
    K = []
    for n in range(P):
        K.append([a[n][1], a[n][2]])    print(K)
```