'''  
#S1.a  
def citire\_numere(nume):  
 f1= open(nume, "r")  
 l=[]  
 for linie in f1.readlines():  
 a=[int(x) for x in linie.split()]  
 l.append(a)  
 f1.close()  
 return l  
  
  
#S1.b  
def prelucrare\_lista(l):  
 a=[]  
 minim=-1  
 for lista in l:  
 m=min(lista)  
 while m in lista:  
 lista.remove(m)  
 if(minim==-1 or minim>len(lista)):  
 minim=len(lista)  
 a.append(lista)  
 l=[]  
 for lista in a:  
 lista=lista[:minim]  
 l.append(lista)  
 return l  
  
''''''  
nume=input()  
l=citire\_numere(nume)  
a=prelucrare\_lista(l)  
print(a)  
''''''  
  
#S1.c  
nume="numere.in"  
m=citire\_numere(nume)  
m=prelucrare\_lista(m)  
for linie in m:  
 for x in linie:  
 print(x,end=" ")  
 print()  
  
#S1.d  
L=citire\_numere(nume)  
k=int(input())  
f2= open("cifre.out","w")  
r= set()  
ok=0  
for linie in L:  
 for x in linie:  
 a=str(x)  
 if(len(a)==k):  
 r.add(x)  
 ok=1  
if(ok):  
 l=sorted(r,reverse=True)  
else:  
 l="Imposibil!"  
a=[str(x) for x in l]  
f2.writelines(" ".join(a))  
f2.close()  
  
'''  
#S2.c  
def cinema\_film(d,\*s,ora\_min,ora\_max):  
  
#S2.b  
def sterge\_ore(d,key,film,ore):  
 l=d[key]  
 l\_nou=[]  
 for filme in l:  
 timp\_nou=filme[1]  
 if(filme[0]==film):  
  
 timp=filme[1]  
 timp\_nou=[]  
 for i in range(len(timp)):  
 if(timp[i] not in ore):  
 timp\_nou.append(timp[i])  
 if(timp\_nou != []):  
 l\_nou.append([filme[0],timp\_nou])  
 return l\_nou  
  
#S2.a  
f1= open("cinema.in","r")  
lista=[]  
for linie in f1.readlines():  
 l=linie.split(" % ")  
 timp=l[2].split()  
 l.pop(2)  
 l.append(timp)  
 lista.append(l)  
f1.close()  
  
d = {}  
for linie in lista:  
 if (linie[0] in d):  
 d[linie[0]].append([linie[1],linie[2]])  
 else:  
 d[linie[0]]=[[linie[1], linie[2]]]  
for key in d:  
 print(key)  
 print(d[key])  
  
print()  
#S2.b  
cinema=input()  
film=input()  
l=input().split()  
ore= set()  
for i in range(len(l)):  
 ore.add(l[i])  
print(sterge\_ore(d,cinema,film,ore))