#the list of atoms  
atoms=["hydrogen","helium","lithium","berylium","boron","carbon","nitrogen","oxygen","florine","neon"]  
#main program  
choice=""  
while choice!="x":  
    print("===========")  
    print ("A T O M F I N D E R")  
    print ("============")  
    print("\n")  
    print ("A:append an atom to the list")  
    print("B:remove an atom from the list")  
    print("C:Print the list")  
    print ("D:sort the list")  
    print ("E:the length of the list")  
    print("F:edit an atom")  
    print ("X:exit the program")  
    print("\n")  
    choice=input("choose an option:")  
    if choice=="A":  
        name=input("enter the name of an atom to add:")  
        atoms.append(name)  
        print(name,"has been added to the list")  
    if choice=="B":  
        name=input("enter the name of an atom to remove:")  
        atoms.remove(name)  
        print(name,"has been removed from the list")  
    if choice=="C":  
        print (atoms)  
    if choice=="D":  
            atoms.sort()  
            print (atoms)  
    if choice=="E":  
        print(len(atoms))  
    if choice=="F":  
        print (atoms)  
        i=int(input("which atom do u wanna change?"))  
        atoms[i]=input("enter a new atom")  
        print (atoms)