#the list of atoms

atoms=["hydrogen", "helium", "lithium", "beryllium", "boron", "carbon", "nitrogen", "oxygen", "fluorine", "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("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=("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 you want to change?"))

 atoms[i]=input("enter a new atom")

 print(atoms)