#the list of atoms

atoms=[]

#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 you want to change?"))

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

print(atoms)