#the list of atoms

atoms=["hydrogen","helium","lithium","berylium ","Boron","Carbon","Nitrogen","Oxygen","Fluorine","Neon","Sodium","Magnesium","Aluminium","Silicon","Phosphorus","Sulfur","Chlorine","Argon","Potassium","Scandium","Titanium","Vanadium","Chromium","Manganese","Cobalt","Nickel","Copper","Zinc","Gallium","Germanium","Arsenic","Selenium","Bromine", "Krypton","Rubidium","Strontium","Yttrium","Zirconium","Niobium","Molybdenum","Technetium","Ruthenium","Rhodium","Palladium","Silver","Cadmium","Indium","Tin","Antimony","Tellurium","Iodine","Xenon","Cesium","Barium","Lanthanum","Cerium","Praseodymium","Samarium","Europium","Gadolinium","Terbium","Dysprosium","Holmium","Erbium","Thulium","Ytterbium","Lutetium","Hafnium","Tantalum","Tungsten","Rhenium","Osmium","Iridium","Platinum","Gold","Mercury","Thallium","Lead","Bismuth","Polonium","Astatine","Radon","Francium","Radium"]

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:")

 if choice=="A":

 name=input ("enter the name of an atom to add: ")

 atoms.append (name)

 print(name,"has been add to the list ")

 if choice=="B":

 name=input("enter the name of an atom to remove")

 atoms.remove

 print(name,"has been remove to the list")

 if choice =="D":

 atoms.sort()

 if choice =="E":

 print(len(atoms))

 if choice == "F":

 print(atom)

 i=int(input("enter a new atomto ghange?"))

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

 print(atoms)