#list of atoms

atoms = ["Hydrogen","Helium","lithium","Beryllium","Boron","Carbon","Nitrogen","Oxygen","Flourine","Neon","Sodium","Magnesium","Aluminium","Silicon","Phosphorus","Sulfur","Chlorine","Argon","Potassium","Calcium","Scandium","Titanium","Vanadium","Chromium","Maganese","Iron","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","Lanathanum","Cerium","Praseodymium","Neodymium","Promethium","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","Fancium","Radium"]

#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("Enter 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("choose 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)