#the list of atoms

Atoms=["hydrogen","helium","lithium","beryllium","boron","carbon","nitrogen","oxygen","fluorine","neon"","Sodium","Magnesium","Aluminium","Silicon","Phosphurus","Sulfer","Chlorine","Argon","Potassium","Calcium","Scandium","Titanium","Vanadium","Chromium","Manganese","Iron","Cobalt","Nickel","Copper","Zinc","Gallium","Germanium","Aresnic","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","Neodymium","Promethium","Samarium","Europium","Gadolinium","Terbium","Dysprosium","Holmium","Erbium","Thulium","Ytterbium","Lutetium","Hafnium","Tantalum","Tungsten","Rhenium","Osmium","Tridium","Platinum","Gold","Mercury","Thallium","Lead","Bismuth","Polonium","Astatine","Radon","Francium","Radium"]

#main program

choice=""

while choice !="x":

 print("\*\*\*\*")

 print("atom finder")

 print("\n")

 print("a:append an atom the lsit")

 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=(input("which atom do you want to change?"))

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

 print(atoms)