#list of atoms

atoms =["Hydrogen","Helium","Lithium","Beryllium","Boron","carbon","Nitrogen","Oxygen","Fluorine","Neon","Sodium","Magnesium","Aluminium","Silicon","Phosphorus","Sulfur","Chlorine","Argon","Potassium","Calcium","Scandium","Titanium","Vanadium","Chronium","Manganese","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","Lanthanum","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","Francium","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 atoms in the list")

 print ("E: the length of the list")

 print ("F: edit an element")

 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(int(atoms))

 if choice=="F":

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

 atoms[1]=input("enter a new atoms")

 print(atoms)