#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)