#the list of atoms

atoms=["Hydrogen","Helium","Lithium","Beryllium","Boron","Carbon","Nitrogen","Oxyen","Flourine","Neon","Sodium","Magnesium","Aluminium","Silicon","Phosphorus","Sulfur","Chlorine","Argon","Potassium","Calcium","Scandium","Titanium","Vandium","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(len(atoms))

if choice=="F":

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

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

print(atoms)