### the list of atoms

atoms=["Hydrogen","Helium","Lithium","Berlyium","Boron","Carbon","Nitrogen","Oxygen","Fluorine","Neon","Sodium",

"Magnesium","Aluminum","Silicon","Phosphorus","Sulfur","Chlorine","Argon","Pottasium","Calcium","Scandium",

"Titanium","Vanadium","Chromium","Manganese","Cobalt","Iron","Nickel","Copper","Zinc","Gallium","Germanium",

"Arsenic","Selenium","Bromine","Kyrpton","Rubidium","Strontium","Yttrium","Zirconium","Niobium","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","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",

"Actinium","Thorium","Protactinium","Uranium","Neptunium","Plutonium","Americium","Curium","Berkelium",

"Californium","Einsteinium","Fermium","Mendelevium","Nobelium","Lawrencium","Rutherfordium","Dubnium","Seaborgium",

"Bohrium","Hassium","Meitnerium","Darmstadtium","Roentgenium","Copernicium","Nihonium","Flerovium","Moscovium",

"Livermorium","Tennessine","Oganesson"]

#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:Sort the list")

print("D:Print 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 a name of an atom to remove from the list")

atoms.remove(name)

print(name,"Has been removed")

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)