# the list of items
atoms=["Hydrogen","Helium","Lithium","Beryllium","Boron","Carbon","Nitrogen","Oxygen","Fluorine","Neon","Sodium","Magnesium"," Aluminum","Silicon","Phosphorus"," Sulfur","Chlorine"," Argon","Potassium","Calcium","Scandium","Titanium","Vanadium","Chromium","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"]
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 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=int(input("which atom do you want to change?"))