#list of atoms
atoms=["hydrogen","helium","lithum","Beryllium","Boron","Carbon","Nitrogen",
"Oxygen","Fluorine","Neon","Sodium","Magnesium","Aluminum","Silicon","Phosphorus",
"Sulfur","Chlorine","Argon","potassium","calcium","scandium","titanium","vandium"
"chromium","manganese","iron","cobalt","nickel","copper","zinc","gallium","germanium"
"Arsenic","Selenium","Bromine","Krypton","Rubidium","Strontium","Yttrium","Zirconium",
"Niobum","Molybdenum","Technetium","Ruthenium","Rhodium","Palladium","Silver",
"Cadmium","Barium","Lanthanum","Cerium","Praseodymium","Neodymium","Promethium","Samarium",
"Europium","Gadolinium","Terbium",
"Dysporsium","Holmium","Erbium","Thulium","Ytterbium","Lutetium","Hafnium","Tantalium",
"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:apend an atom tp the list")
        print("B:remove an atom from the list")
        print("C:print the list")
        print("D: Sort 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 has been added to the list")

        if choice=="B":
            name=input("enter the name of an aton to remove:")
            atoms.remove(name)
            print(name,"has been remove 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?"))
            atoms[i]=("enter a new atom")
            print(atoms)

        if choice=="E":
            print(len(atoms) s