#the list of items

atoms=["hydrogen","helium","lithium","beryllium","boron","carbon","nitrogen","oxygen","flourine"

,"neon""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"]

#Main progrom

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:print the lenght of the list")

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 add:")

if choice=="C":

atoms.sort()

print(atoms)

if choice=="D":

print(atoms)

if choice=="E":

print(len(atoms))

if choice=="F":

def linesearch():

name=input("Enter a search term:")

stop=len(atoms)

for i in range(stop):

if atoms[i]==name:

print(name,"is in the list")

else:

print(name,"is not in the list")