def insertionSort(arr, length):

for i in range(1, length):

j = i

while j > 0 and arr[j - 1] > arr[j]:

key = arr[j]

arr[j] = arr[j - 1]

arr[j - 1] = key

j -= 1

def printArray(array, size):

for i in range(size):

print(array[i], end=" ")

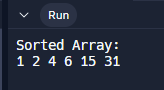
print()

array = [46, 52, 21, 22, 11]

insertionSort(array, 6)

print("Sorted Array:")

printArray(array, 6)



def swap(arr, firstIndex, secondIndex):

temp = arr[firstIndex]

arr[firstIndex] = arr[secondIndex]

arr[secondIndex] = temp

def indexOfMinimum(arr, startIndex, n):

minValue = arr[startIndex]

minIndex = startIndex

for i in range(minIndex + 1, n):

if arr[i] < minValue:

minIndex = i

minValue = arr[i]

return minIndex

def selectionSort(arr):

n = len(arr)

for i in range(n):

index = indexOfMinimum(arr, i, n)

swap(arr, i, index)

def printArray(arr):

for i in range(len(arr)):

print(arr[i], end=" ")

print()

arr = [46, 52, 21, 22, 11]

selectionSort(arr)

print("Sorted array:")

printArray(arr)

