1. Python Program for Cycle Sort

def cycleSort(arr):

writes = 0

for cycleStart in range(0, len(arr) - 1):

item = arr[cycleStart]

pos = cycleStart

for i in range(cycleStart + 1, len(arr)):

if arr[i] < item:

pos += 1

if pos == cycleStart:

continue

while item == arr[pos]:

pos += 1

arr[pos], item = item, arr[pos]

writes += 1

while pos != cycleStart:

pos = cycleStart

for i in range(cycleStart + 1, len(arr)):

if arr[i] < item:

pos += 1

while item == arr[pos]:

pos += 1

arr[pos], item = item, arr[pos]

writes += 1

return writes

# Example usage

my\_array = [5, 4, 3, 2, 1]

cycleSort(my\_array)

print(my\_array)

1. Python Program for Stooge Sort

def stoogeSort(arr, l, h):

if l >= h:

return

if arr[l] > arr[h]:

arr[l], arr[h] = arr[h], arr[l]

if h - l + 1 > 2:

t = (h - l + 1) // 3

stoogeSort(arr, l, h - t)

stoogeSort(arr, l + t, h)

stoogeSort(arr, l, h - t)

# Example usage

my\_array = [5, 4, 3, 2, 1]

stoogeSort(my\_array, 0, len(my\_array) - 1)

print(my\_array)

1. Python Program to print the pattern ‘G’

def printPatternG():

for row in range(7):

for col in range(7):

if ((col == 1 and (row != 0 and row != 6)) or ((row == 0 or row == 6) and (col > 1 and col < 5)) or (

row == 3 and col > 2 and col < 6) or (col == 5 and (row != 1 and row != 2 and row != 6))):

print("\*", end="")

else:

print(" ", end="")

print()

# Example usage

printPatternG()

1. Python Program to print an Inverted Star Pattern

def printInvertedStarPattern(n):

for i in range(n, 0, -1):

print((n - i) \* ' ' + i \* '\*')

# Example usage

printInvertedStarPattern(5)

1. Python Program to print double sided stair-case pattern

def printDoubleSidedStairCase(n):

for i in range(n):

print(" " \* i + "\*" \* (n - i))

for i in range(2, n + 1):

print(" " \* (n - i) + "\*" \* i)

# Example usage

printDoubleSidedStairCase(5)

1. Python Program to print with your own font
2. Get Current Date and Time using Python
3. Python | Find yesterday’s, today’s and tomorrow’s date
4. Python program to convert time from 12 hour to 24 hour format