1. Write a Python Program to find sum of array?

arr = [12, 3, 4, 15]

# sum() is an inbuilt function in python that adds

# all the elements in list,set and tuples and returns

# the value

ans = sum(arr)

# display sum

print('Sum of the array is ', ans)

1. Write a Python Program to find largest element in an array?

arr = [25, 11, 7, 75, 56];

#Initialize max with first element of array.

max = arr[0];

#Loop through the array

for i in range(0, len(arr)):

#Compare elements of array with max

if(arr[i] > max):

max = arr[i];

print("Largest element present in given array: " + str(max));

1. Write a Python Program for array rotation?

def rotateArray(arr, n, d):

temp = []

i = 0

while (i < d):

temp.append(arr[i])

i = i + 1

i = 0

while (d < n):

arr[i] = arr[d]

i = i + 1

d = d + 1

arr[:] = arr[: i] + temp

return arr

# Driver function to test above function

arr = [1, 2, 3, 4, 5, 6, 7]

print("Array after left rotation is: ", end=' ')

print(rotateArray(arr, len(arr), 2))

1. Write a Python Program to Split the array and add the first part to the end?

def splitArr(a, n, k):

b = a[:k]

return (a[k::]+b[::])

# main

arr = [12, 10, 5, 6, 52, 36]

n = len(arr)

position = 2

arr = splitArr(arr, n, position)

for i in range(0, n):

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

1. Write a Python Program to check if given array is Monotonic?

def isMonotonic(A):

x, y = [], []

x.extend(A)

y.extend(A)

x.sort()

y.sort(reverse=True)

if(x == A or y == A):

return True

return False

# Driver program

A = [6, 5, 4, 4]

# Print required result

print(isMonotonic(A))