Python programming basic assignment 7:

Q1) array = list(map(int, input("enter integers with spaces separating values ").strip().split()))

print(sum(array))

Q2) array = list(map(int, input("enter integers with spaces separating values ").strip().split()))

large = array[0]

for i in range(len(array)):

if array[i] > large:

large = array[i]

print(large)

Q3) array = list(map(int, input("enter integers with spaces separating values ").strip().split()))

c = int(input("at which index do you want rotation "))

array2 = []

b = 0

d = int(len(array))

while (b < c):

array2.append(array[b])

b = b + 1

e = 0

while (c < d):

array[e] = array[c]

e = e + 1

c = c + 1

array[:] = array[: e] + array2

print(array)

Q4) array = list(map(int, input("enter integers with spaces separating values ").strip().split()))

c = int(input("at which index do you want rotation "))

array2 = []

b = 0

d = int(len(array))

while (b < c):

array2.append(array[b])

b = b + 1

e = 0

while (c < d):

array[e] = array[c]

e = e + 1

c = c + 1

array[:] = array[: e] + array2

print(array)

The code is same as third question since splitting and moving the elements to last is same as rotation.

Q5) array = list(map(int, input("enter integers with spaces separating values ").strip().split()))

a = int(len(array)) - 1

b = 0

for i in range(0, a):

if array[i] >= array[i + 1]:

b = b + 1

c = 0

for i in range(0, a):

if array[i] <= array[i + 1]:

c = c + 1

if b == a or c == a:

print("array is monotonic")

else:

print("array is non monotonic")