Q1

class Solution:

def nextLargerElement(self,arr,n):

ans = [-1 for i in range(n)]

stack = []

for i in range(n):

if not stack:

stack.append(i)

else:

if arr[i] > arr[stack[-1]]:

while stack and arr[i] > arr[stack[-1]]:

val = stack.pop()

ans[val] = arr[i]

stack.append(i)

else:

stack.append(i)

return ans

Q2

def prevSmaller(self, A):

S = list()

res = []

for i in range(len(A)):

while (len(S) > 0 and S[-1] >= A[i]):

S.pop()

if (len(S) == 0):

res.append(-1)

else:

res.append(S[-1])

S.append(A[i])

return res

Q3

def push(x):

# global declaration

global queue\_1

global queue\_2

queue\_1.append(x)

# code here

#Function to pop an element from stack using two queues.

def pop():

# global declaration

global queue\_1

global queue\_2

if (len(queue\_1) == 0):

return -1

while(len(queue\_1) > 1):

queue\_2.append(queue\_1.pop(0))

out = queue\_1.pop(0)

while(len(queue\_2) != 0):

queue\_1.append(queue\_2.pop(0))

return out

Q4

from typing import List

class Solution:

def reverse(self,st):

#code here

if st==[]:

return st

else:

x = st[0]

st = self.reverse(st[1:])

st.append(x)

return st