ACTIVITY 5

a.Pop elements: 4 3 2 1 0 9 8 7 6 5

initially

Push elements from 0 to 4.

Pop 4, print 4

Pop 3, print 3

Pop 2, print 2

Pop 1, print 1

Pop 0, print 0

Push elements from 0 to 9.

Pop 9, print 9

Pop 8 print 8

Pop 7 print 7

Pop 6, print 6

Pop 5, print 5

So, it’s Possible.

b. Pop elements: 4 6 8 7 5 3 2 9 0 1

initially

Push elements from 0 to 4

Pop 4, print 4

Push elements from 3 to 6

Pop 6, print 6

Push elements from 6 to 8

Pop 8, print 8

Pop 7, print 7

Pop 5, error (top of stack is 6)

So, it’s Not possible.

c. Pop elements: 2 5 6 7 4 8 9 3 1 0

So, it’s Possible.

d. Pop elements: 4 3 2 1 0 5 6 7 8 9

So, it’s Possible.

e. Pop elements: 1 2 3 4 5 6 9 8 7 0

So, it’s Possible.

f. Pop elements: 0 4 6 5 3 8 1 7 2 9

So, it’s Not possible.

g. Pop elements: 1 4 7 9 8 6 5 3 0 2

So, it’s Not possible.

h. 2 1 4 3 6 5 8 7 9 0

So, it’s Possible.