**Linear Search a number in the list**

START

SET my\_cards = [4,5,7,8,9]

SET length\_of\_my\_cards = 5

SET in\_card = 6

SET flag = 0

SET i = 0

SET j = 0

SET temp\_cards = [0,0,0,0,0,0]

PRINT “Before Insertion : “ my\_cards

WHILE i less than or equal to length\_of\_my\_cards

SET cur\_card = my\_card[i]

IF cur\_card > in\_card THEN

temp\_cards[j] = my\_cards[i]

ELSE

IF flag = 0 THEN

temp\_cards[j] = in\_card

flag = 1

INCREMENT j

CONTINUE

ELSE

temp\_cards[j] = my\_cards[i]

END IF

END IF

INCREMENT i

INCREMENT j

END WHILE

SET my\_cards = temp\_cards

PRINT “After Insertion : “ my\_cards

STOP