Write an algorithm to implement linear search (in both of successful and

unsuccessful modes) and also show the number of comparisons.

Solution ->

Step 1: START

Step 2: Initialize variables

cnt->0

f->0

i->1

Step 3: Take input of n elements

Step 4: Take input of element to search in val

Step 5: Repeat the steps until i <= n

5.2: cnt->cnt+1

5.1: if a[i] = val then

5.1.1: f = 1

5.1.2: pos = i

5.1.3: Go to Step 6

Step 6: if f = 1

6.1: Print ‘Value found at postion = pos’

6.2: Print ‘Number of steps = cnt’

Step 7: if Step 6 is false

7.1: Print ‘Value not found…’

Step 8: Exit