**Algorithm of Linked List**

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**1. Insertion of node at the beginning**

**a.** Allocate memory for new node (temp)

b. DATA (temp) = num

c. ADDRESS (temp) = start

d. start = temp

**2. Insertion of node at the end**

**a.** Allocate memory for new node (temp)

b. DATA (temp) = num

c. ADDRESS (temp) = NULL

d. IF start = NULL

e. start = temp

f. END IF

g. ELSE

h. disp = start

i. WHILE ADDRESS(disp) != NULL

j. disp = ADDRESS (disp)

k. END WHILE

l. ADDRESS (disp) = temp

m. END ELSE

**3. Insertion of node at specific position**

a. Allocate memory for new node (temp)

b. DATA (temp) = num

c. disp = start

d. FOR i TO pos - 1

e. disp = ADDRESS (disp)

f. IF ADDRESS (disp) = NULL

g. EXIT

h. END IF

i. END FOR

j. ADDRESS (temp) = ADDRESS (disp)

k. ADDRESS (disp) = temp