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IBML18 GS08 9

Insert_front (head, data )

    . node new = new node ( )
      new → data = data
      new → ptrdiff = head
      if (head != NULL )
            head → ptrdiff = head → ptrdiff XOR new
      head = new
      return head;

Insert_rear (head, data )

    node new = new node ( )
    new → data = data
    temp = head, prev = NULL
    while ( temp != NULL )

    if (head == NULL)
    new → ptrdiff = NULL
    return new.

            next = prev XOR temp → ptr diff
            prev = temp
            temp = next
        prev → ptrdiff = prev → ptrdiff XOR new
        new → ptrdiff = prev
    return head.