Double a No in Linked List ->

Ex(1) -> 1 -> 8 -> 9 -> X
3 -> 7 -> 8 -> X

189
x2
378

Ex(2) -> 9 -> 9 -> 9 -> X
1 -> 9 -> 9 -> 8 -> X

999
x2
1998

1- Algo ->

1 -> 8 -> 9 -> X
^ head

(1) -> Use Recursion to access from R -> L

int prod = head -> val * 2 + carry
head -> val = prod % 10;
carry = Prod / 10

Ex ->

9 -> 9 -> 9 -> X
^ th

(i) -> prod = 9 x 2 + 0 = 18
head -> val = 18 % 10 = 8
carry = 1

(i) → 9 -> 9 -> 8 -> x
      ↙ h

prod = 9 x 2 + 1 = 19
head->val = 19 % 10 = 9
carry = 1

(ii) -> 9 -> 9 -> 8 -> x
   ↙ h

prod = 9 x 2 + 1 = 19
h->val = 19 % 10 = 9
carry = 1

(iv) -> 9 -> 9 -> 8 -> x

carry bcha hai?
if (c != 0)
insert At head (carry)