

```
while (fast.next != null && fast.next.next != null) {
    fast = fast.next.next;
    slow = slow.next;

    if (fast == slow)
        break;
}

if (fast != slow)
    return null;
```

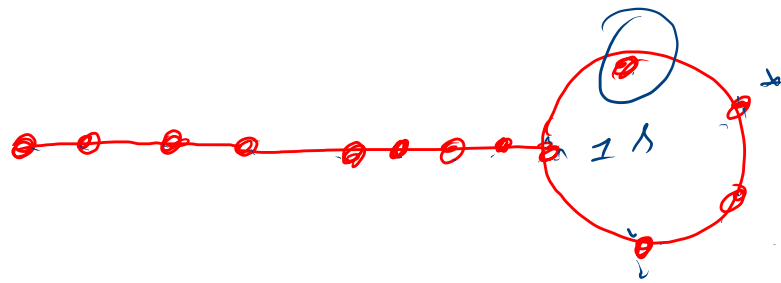
```
ListNode meetingNode = fast;
int a = 1, b = 0, c = 0, bc = 0, nDash = 0, n = 0; // bc is (b + c)

int count = 0;
slow = head;
while (slow != fast) {
    slow = slow.next;
    fast = fast.next;

    if (nDash == 0 && fast == meetingNode)
        bc = count;
    if (fast == meetingNode)
        nDash++;

    a++;
    count++;
}
```

```
n = nDash + 1;
c = a - bc * nDash;
b = bc - c;
```



$$a = 9$$

$$count = 8$$

$$n' = 1$$

$$bc = 5$$

$$a = c + (count)(n')$$

$$9 = c + 5(1)$$

$$c = 4$$

$$6A = 5$$

$$6 = 5 - 4$$

$$6 = 1$$