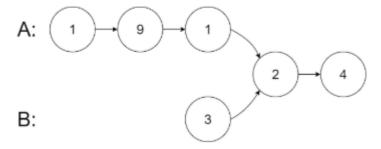
160. Intersection of Two Linked Lists

Write a program to find the node at which the intersection of two singly linked lists begins.

Example 2:



```
Input: intersectVal = 2, listA = [1,9,1,2,4], listB = [3,2,4], skipA = 3,
skipB = 1
Output: Reference of the node with value = 2
Input Explanation: The intersected node's value is 2 (note that this must
not be 0 if the two lists intersect). From the head of A, it reads as
[1,9,1,2,4]. From the head of B, it reads as [3,2,4]. There are 3 nodes
before the intersected node in A; There are 1 node before the intersected
node in B.
```

- 尋找交錯點,沒找到回傳 NULL
 - o Example
 - A: 1 9 1 2 4 N 3 *2* 4
 - B: 3 2 4 N 1 9 1 *2* 4

```
1
 2
     * Definition for singly-linked list.
 3
     * struct ListNode {
 4
           int val:
 5
           struct ListNode *next;
     * };
 6
 7
 8
    struct ListNode *getIntersectionNode(struct ListNode *headA,
 9
                                           struct ListNode *headB)
10
    {
        struct ListNode *p1 = headA;
11
        struct ListNode *p2 = headB;
12
13
        while (p1 != p2) {
14
15
            p1 = p1 ? p1 -> next : headB;
             p2 = p2? p2 \rightarrow next: headA;
16
17
        }
18
        return p1;
19 }
```