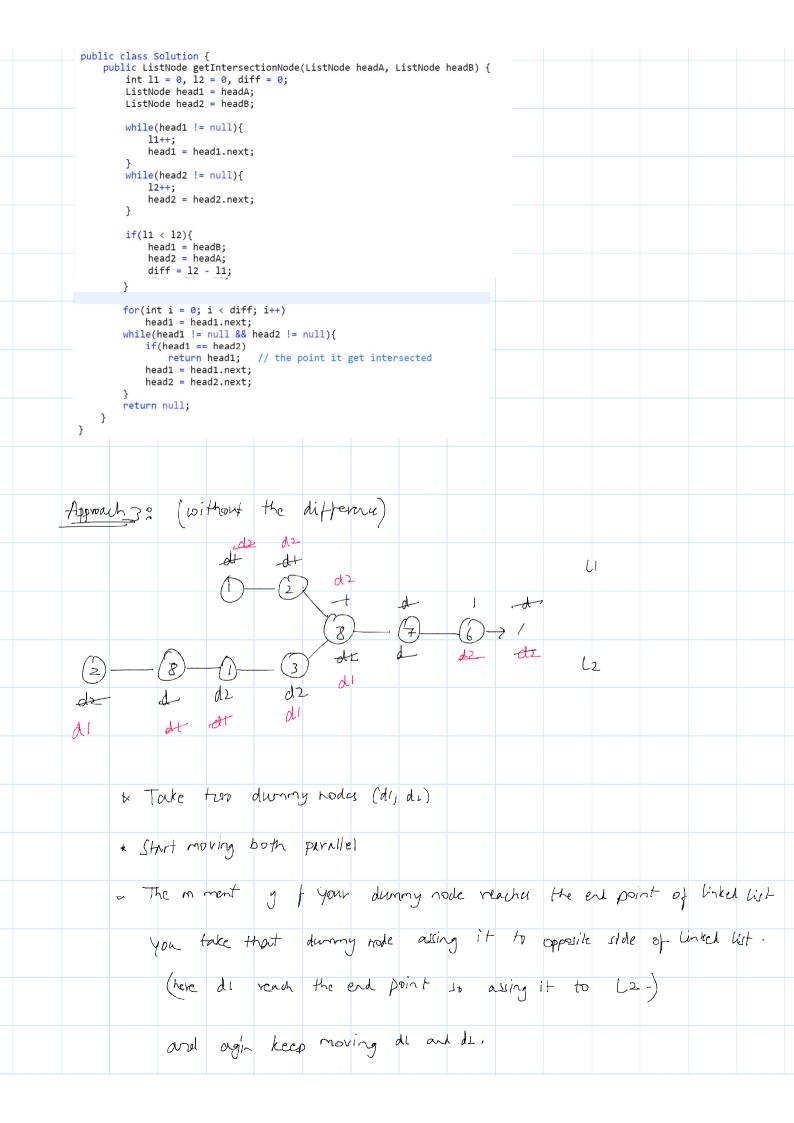


Brute force:					
To compo	we ever node poin	tor in the 1th	list with the	every other node	pointer
in the seco	ond hist by wh	ich the matel	ing note point	or will lead us to	
to the in	tersecting note.	Part the T.C	=> D(mn) S	C > O(1)	
Better Approach: 1					
\$ Find the le	ength (li and lz)	of both list -	> 0(N) + 0 (M) =	0 (max (m, n))	
of Take the	difference d of	the length	0 (1)		
* Male d	steps in longer li	st o(d)			
n Steps in b	both list in paral	lel until links	to next note mat	7h - 0 (min (m,n))	
x Space Com	plexity -> oli)				
x 74 no 91	ntadection between hi	41-			
	dt d'	a ret	urn	LL = S	
	() (2)	d, 12		L2 = 7	
d2	$\frac{dz}{dz}$ $\frac{dz}{dz}$ $\frac{dz}{dz}$	(3) (7)—()—, ×	diff = Lz-LI	
(2)——	(8) (1) (3		- the	= 2 loger list is 12	JD
			mol	ve le by 2 times	
			> ^C	low move both phin	Mel



	* K)DLD 04,	gin 41	e di	ymy	nose	reache	s the	end	point	(d2)) 70	USPO	point
	ď	iz to	the	LI.										
	ø	Now	both	the	dunny	NOAL	Stand	at t	he sor	ne mod	<u>e</u> ,			
	ر	Now	cohen	at	Same	Hurati	ion di	ond	dz	Collida	. tha	the	Poin	1 2 J
			section											
	A.	if	there	[] V.	o int	rsechi	on the	, Hj	nWl	L -				
1	war hio			dz dt	—> al	lingel	at sar	ne Pali	Hon.					
17th	100			Q/	0 _ r			-7) +					
	10 -				0) — (4	- d2	- X	2					
	dr dt	Att	d				st.	e that	meen	two m	nove item	ation l	eft-	
	Ü				T. (=> O((2 M)							
	(-+													
r	AVA													

```
public class Solution {
   public ListNode getIntersectionNode(ListNode headA, ListNode headB)
       //boundary check
       if(headA == null || headB == null) return null;
       ListNode a = headA;
ListNode b = headB;
       //if a & b have different len, then we will stop the loop after second iteration
       while( a != b){
          //for the end of first iteration, we just reset the pointer to the head of another
linkedlist
          }
       return a; // the moment a == b we return it.
```