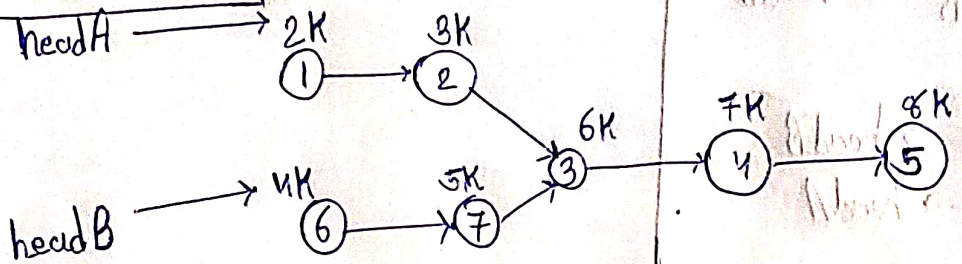
160. Intersection of 2 Linked List :-

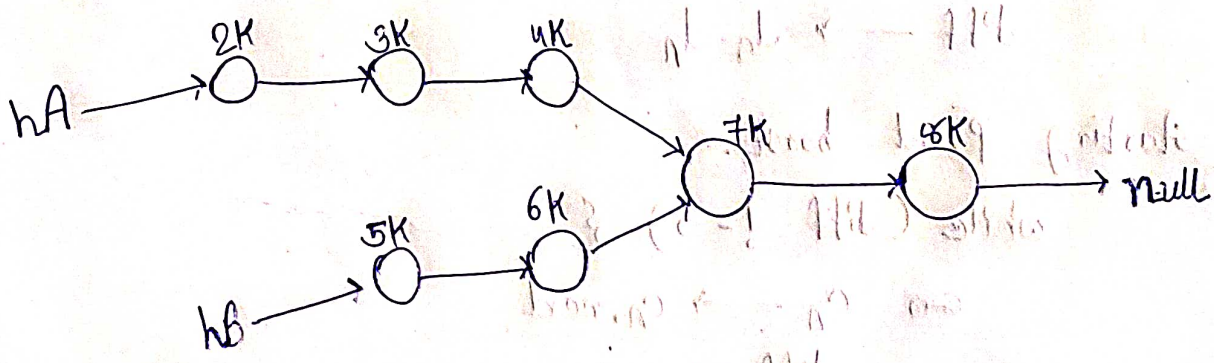
headA = 2K
headA.val = 1




```
while ( currA != null  &&  currB != null ) {
    if ( currA == currB ) {
        return currA ;
    }
    currA.  =  currA.next ;
    currB   =  currB.next ;
}
```

// same length of both linked list.

~~total~~



C_A will start by diff.

length - A = 5
length - B = 4

C_A ⟶ represent bigger list
C_B ⟶ smaller list

if $l_A > l_B$

$C_A \longrightarrow$ head A

$C_B \longrightarrow$ head B

else

$C_A \longrightarrow$ head B

$C_B \longrightarrow$ head A

Steps :-

(1) l_A & l_B calculate

(2) if ($l_A > l_B$)

$C_A \longrightarrow H_A$

$C_B \longrightarrow H_B$

diff $\longrightarrow$ $l_A - l_B$

else

$C_A \longrightarrow H_B$

$C_B \longrightarrow H_A$

diff $\longrightarrow$ $l_B - l_A$

(3) Starting point boost.

```
while (diff != 0) {
    C_A ⟶ C_A.next
    diff --
}
```

(4) equal length node code.