Solution@16-08-2023

160. Intersection of Two Linked Lists

```
package leetcode.easy;
import util.ListNode;
import java.util.HashSet;
import java.util.Set;
class IntersectionOfTwoLinkedLists {
ListNode getIntersectionNodeSet(ListNode headA, ListNode headB) {
  if (headA == null) return headA;
  if (headB == null) return headB;
  Set<ListNode> nodeAddress = new HashSet<>();
  while (headA != null) {
   nodeAddress.add(headA);
   headA = headA.next;
  }
  ListNode result = null;
  while (headB != null) {
   if (nodeAddress.contains(headB))
    return headB;
```

```
headB = headB.next;
 }
 return result;
}
ListNode getIntersectionNode(ListNode headA, ListNode headB) {
 int lenA = getListLength(headA);
 int lenB = getListLength(headB);
 while (lenA > lenB) {
  lenA--;
  headA = headA.next;
 }
 while (lenB > lenA) {
  lenB--;
  headB = headB.next;
 }
// Now both heads are at same distance from intersection
 // Start moving them both until they meet
 while(headA != headB) {
  headA = headA.next;
  headB = headB.next;
 }
 return headA;
}
```

```
private int getListLength(ListNode head) {
  int len = 0;
  while (head != null) {
   len++;
   head = head.next;
  }
  return len;
 }
}
172. factorial trailing zeroes
public class Solution {
    public int trailingZeroes(int n) {
         int result = 0;
         while (n != 0) {
             n = n / 5;
             result += n;
         return result;
    }
}
```