*	*
*	*
*	*

## **ARRAYLIST**

```
public class KWArrayList<E> {
       private static final int INITIAL_CAPACITY = 10;
       private E[] theData;
       private int size = 0;
       private int capacity = 0;
      T(n)=\Theta(1)
      public KWArrayList(){
              capacity = INITIAL_CAPACITY;
              theData = (E[]) new Object[capacity];
      }
      T(n)=\Theta(1)
      public boolean add(E anEntry){
              if (size == capacity){
                     reallocate();
              theData[size] = anEntry;
              size++;
              return true;
      }
      T(n)=O(n)
      public void add(int index, E anEntry){
              if (index < 0 \parallel index > size){
                     throw new ArrayIndexOutOfBoundsException(index);
              if (size == capacity){
                     reallocate();
              for (int i = size; i > index; i--){
                     theData[i] = theData[i - 1];
              theData[index] = anEntry;
              size++;
      }
      T(n)=\Theta(1)
      public E get(int index){
              if (index < 0 \parallel index >= size){
                     throw new ArrayIndexOutOfBoundsException(index);
              return theData[index];
      }
```

```
T(n)=\Theta(1)
      public E set(int index, E newValue){
             if (index < 0 \parallel index >= size){
                    throw new ArrayIndexOutOfBoundsException(index);
         }
             E oldValue = theData[index];
             theData[index] = newValue;
             return oldValue;
      }
      T(n)=O(n)
      public E remove(int index){
             if (index < 0 \parallel index >= size){
                    throw new ArrayIndexOutOfBoundsException(index);
             E returnValue = theData[index];
             for (int i = index + 1; i < size; i++) {
                    theData[i - 1] = theData[i];
             }
             size--;
             return return Value;
      }
      T(n)=\Theta(1)
      public int size(){
            return size;
      T(n) = \Theta(1)
      private void reallocate(){
             capacity = 2 * capacity;
             theData = Arrays.copyOf(theData, capacity);
      }}
     ------
                                 LINKEDLIST
public class KWSingleLinkedList<E> {
      private Node<E> head = null;
      private int size = 0;
       T(n)=\Theta(1)
      private static class Node<E> {
             private E data;
             private Node<E> next;
             private Node(E dataItem) {
                    data = dataItem;
                    next = null;
```

```
}
       private Node(E dataItem, Node<E> nodeRef) {
               data = dataItem;
               next = nodeRef;
       }}
T(n)=\Theta(1)
public void addFirst(E item) {
       head = new Node<>(item, head);
       size++:
}
T(n)=\Theta(1)
private void addAfter(Node<E> node, E item) {
       node.next = new Node<>(item, node.next);
       size++; }
T(n)=\Theta(1)
private E removeAfter(Node<E> node) {
       Node<E> temp = node.next;
                                            \Theta(1)
       if (temp != null) {
                                                \Theta(1)
               node.next = temp.next;
                                                       \Theta(1)
               size=size-1;
                                                  \Theta(1)
               return temp.data;
                                               \Theta(1)
        }
       else {
               return null;
                                         \Theta(1)
       }}
T(n)=\Theta(1)
private E removeFirst() {
       Node<E> temp = head;
                                                  \Theta(1)
       if (head != null) {
                                                \Theta(1)
                head = head.next;
                                                 \Theta(1)
       // Return data at old head or null if list is empty
       if (temp != null) {
               size=size-1;
                                             \Theta(1)
                                                \Theta(1)
               return temp.data;
       }
       else {
                                            \Theta(1)
               return null;
       }}
T(best)(n) = \Theta(1)
 T(worst)(n) = \Theta(n)
 T(n)=O(n)
private Node<E> getNode(int index) {
       Node<E> node = head;
       for (int i = 0; i < index && node != null; <math>i++) {
               node = node.next;
```

```
return node:
    }
     T(n)=O(n)
    public E get(int index) {
           if (index < 0 \parallel index >= size) {
                  throw new IndexOutOfBoundsException(Integer.toString(index));
           Node<E> node = getNode(index);
           return node.data;
    }
     T(n)=O(n)
    public E set(int index, E newValue) {
           if (index < 0 \parallel index >= size) {
                  throw new IndexOutOfBoundsException(Integer.toString(index));
           Node<E> node = getNode(index);
           E result = node.data;
           node.data = newValue;
           return result;
    }
     T(n)=O(n)
    public void add(int index, E item) {
           if (index < 0 \parallel index > size) {
                  throw new IndexOutOfBoundsException(Integer.toString(index));
           if (index == 0) {
                  addFirst(item);
           }
           else {
                  int a=index-1;
                  Node<E> node = getNode(a);
                  addAfter(node, item);
           }}
     T(n)=O(n)
    public boolean add(E item) {
           add(size, item);
           return true;
    }
     T(n)=\Theta(1)
    public int size(){
           return size;
    }}
*-----*
```

### **ADMINISTRATOR METHODS**

Query\_Product\_in\_Stock Method

```
temporary - amount - product - num & Array List
public void Query Product in Stock(){
    KMSingleLinkedList<KMSIngleLinkedList<Integer> > Office_Chairs=getOffice_Chairs();
        KWSingleLinkedList<KWSingleLinkedList<Integer> > Office_Desks=getOffice_Desks();
        KWSingleLinkedList<KWSingleLinkedList<Integer> > Meeting_Tables=getMeeting_Tables();
                                                                                                                                                                                                                                                  a (Simple Statement)
        KWSingleLinkedList<Integer> Bookcases=getBookcases();
       KWSingleLinkedList<Integer> Office_Cabinets=getOffice_Cabinets();
Company person=new Customer("default", "default", "defa
        int []Customer_Num_Arr=((Customer)person).getCustomer_Num_Arr();
        KWArrayList<KWArrayList<Integer> > temporary_amount_product_num=((Customer)person).getTemporary_amount_product_num();
        int [][]temporary_item_number=((Customer)person).getTemporary_item_number();
      int k=1;
for(int i=0;i<0ffice chairs.stze();i++){
    for(int j=0;j<0ffice Chairs.get(i).size();j++){
        product_stock_num[k]=0ffice_chairs.get(i).get(j);
}</pre>
                                                                                                                                           inner loop
        for(int i=0;i<Office_Desks.size();i++){
                                                                                                                                                                                        All Loop
               for(int j=0;j<0ffice_Desks.get(i).size();j++){
    product_stock_num[k]=0ffice_Desks.get(i).get(j);</pre>
                                                                                                                  0(03)
                                                                                                                                        9(c4)
                                                                                                                                    Ciares loop
        for(int 1=0;i<Meeting Tables.size();i++){
                                                                                                                                                                               (A11
              for(int j=0;j<Meeting Tables.get(i).size();j++){
   product_stock_num[k]=Meeting_Tables.get(i).get(j);</pre>
        for(int i=0;i<Bookcases.size();i++){
              int i=0; (-Bookcases.stze(); ) product_stock_num[k]=Bookcases.get(i);
                                                                                                                                                Cimer 1000
                                                                                                                                                                                                 (All 100)
                                                                                                                   0(92)
   for(int i=0;i<Office_Cabinets.size();i++){
              product_stock_num[k]=Office_Cabinets.get(i);
                                                                                                                                                                                               Thousand -On)
       int less num=0;
       for(int i=0;i<Customer_Num_Arr.length;i++){
              int counter=0:
              if(Customer_Num_Arr[i+1]==0){ break; }
              System.out.println("Orders for Customer that special customer number's is "+Customer_Num_Arr[i]+"."); -> O()
              for(int j=0;j<temporary_item number[i].length;j++){
    [f(temporary_item_number[Customer_Num_Arr[i]][0]==0)[</pre>
                             System.out.println("!!!!! There is No Order And Supplying Does Not Necessary !!!!!");
     0(1)
                     if(temporary_item_number[Customer_Num_Arr[i]][j]==0)[
                     counter++;
                     System.out.println("All order's amounts are enough !!!");
              vstem.out.println();
                        =) T(n, M, t, c, p, a, b) =) O(t^5) + O(c^5) + O(p^5) + O(a^2) + O(b^2) + O(n, m) + O(1)
=) O(t^5 + c^5 + p^5 + a^2 + b^2 + n, m
```

### **CUSTOMER METHODS**

### List\_Of\_Products Method

```
=) T(a,b,c,d,e)
public void List Of_Products(){
    KWSingletinkedList<KWSingleLinkedList<integer> > Office_Chairs=getOffice_Chairs=
                                                                                      0(02)+0(62)+0(03)+0(1)
  KWSingleLinkedList<KWSingleLinkedList<Integer> > Office_Desks@getOffice_Desks();
  KWSingleLinkedList<KWSingleLinkedList<Integer> > Meeting Tables=getMeeting Tables();
  KWSingleLinkedList<Integer> Bookcases=getBookcases();
   KWSingleLinkedList<Integer> Office Cabinets=getOffice Cabinets();
                                                                                        (1)6+ (9)6+
   int ctru0:
   System.out.println();
   System.out.println("--------Office Chair List------");
   for(int 1=0;1<7;1++){
 ) (02+62+C2+d+e)
       TSystem.out.println((ctr+1)+". | > Office Chair "+ (i+1) +". Model "+(j+1)+".Color");
     On product list_num[ctr]=ctr+1; Ctr++;
   System.out.println();
   System.out.println("------);
   for(int i=0;i<5;i++){
for(int j=0;j<Office Desks.get(i).size();j++){
        System.out.println((ctr+1)+". -> Office Desk "+ (i+1) +".Model "+(j+1)+".Color");
        product_list_num[ctr]=ctr+1;
        ctr++:
   System.out.println();
   for(int 1=0;1<10;1++){
     System.out.println();
     System.out.println("------"Meeting Table "+(1+1)+". Model-----");
      for(int j=0;)// Jables.get(i).size();j++){
    System.out.println((ctr+1)+'. -> Meeting Table "+ (i+1) +".Model "+(j+1)+".Color");
        product_list_num[ctr]=ctr+1;
        ctr++:
   System.out.println("*********);
                                              \alpha(1)
   System.out.println("-----");
   for(int i=0;i<Bookcases.size();i++)[
      System.out.println((ctr+1)+". -> Bookcase "+ (i+1) +".Model");
      product_list_num[ctr]=ctr+1;
   System.out.println();
   System.out.println("-----");
   for(int i=0;i<Office_Cabinets.size();i++){
      System.out.println((ctr+1)+". -> Office Cabinet "+ (i+1) +".Model")
      product_list_num[ctr]=ctr+1;
```

## Stock Method

```
public void Stock(){
  KWSingleLinkedList<KWSingleLinkedList<Integer> > Office Chairs=getOffice Chairs();
  KWSingleLinkedList<KWSingleLinkedList<Integer> > Office Desks@getOffice Desks();
  KWSingleLinkedList<KWSingleLinkedList<Integer> > Meeting Tables=getMeeting_Tables();
  KHSingleLinkedList<Integer> Bookcases=getBookcases();
  KWSIngleLinkedList<Integer> Office Cabinets=getOffice_Cabinets();
  int ctr=0:
  System.out.println();
  System.out.println("---------Office Chair Stock--------"
  for(int 1=0;1<7;1++){
 ANSystem.out.println();

System.out.println(".....Office Chair "+(i+1)+". Model.....");
   for(int j=0;j<Office Chairs.get(i).size();j++){
                                                           O(a2)
  System.out.println();
  System.out.println("-----")
  or(int t=0;1<5;1++){
    System.out.println();
  System.out.println("-------);
  For(int j=0; j=0ffice_Desks.get(1).size(); j++){
      System.out.println((ctr+1)+" / -> Office Desk "+ (1+1) +" .Hodel "+(j+1)+" .Color : "+Office Desks.get(i).get(j)); /
      ctr++;
  System.out.println();
  System.out.println("-------Meeting Table Stock-------
  for(int 1=0;i<10;i++){
for(int j=0; j<Meeting Tables.get(i).size(); j++){
   System.out.println((ctr+1)+". (> Meeting Table "+ (i+1) +".Model "+(j+1)+".Color : "+Meeting Tables.get(i).get(j));
                                                               OCc2)
  System.out.println();
  System.out.println("-----");
  System.out.println((ctr+1))*. -> Bookcase "+ (i+1) +" .Model : "+Bookcases.get(i));
  System.out.println();
  System.out.println("-----");
  for(int i=0;i<Office Cabinets.size();i++){
   System.out.println((ctr+1)+1. -> Office Cabinet "+ (i+1) +".Model : "+Office Cabinets.get(i));
                  T(a, b, c, d, e) = O(a4) + O(b4) + O(c4) + O(d2) + O(e2) + O(1)
                                       =) O(a4+64+c4+d2+e2)
```

# Shopping\_on\_Online Method

```
address - orr, phone - number - orr, product - list - num, temporary - item - number, permonent - item - number
   temperary - amount - product, parmonent - avount - product - norm
                                                                                                                                                              Army List
public void Shopping on Online(String address, String phone_number, int num_of_product, int piece_of_product) throws ClassException(
O() int count3=0, count4=0, count5=0;
       for(int i=0;i<this.address_arr.size();i++){ '
          tf(address.equals(this.address_arr.get(i))){
              count3++; → ⊖(1)
       for(int i=0;i<this.phone number arr.size();i++){
           if(phone_number.equals(this.phone_number_arr.get(i)))(
              count4++; > 9(1)
       if(count3==0 && count41=0){ throw new ClassException("!!! Given phone number using for other customer !!!"); ) > 2 (
        for(int i=0;i<product list_num.length;i++){
           if(num_of_product==product_list_num[i]){
               count5++; + (3/1)
        if(count5==0){ throw new ClassException("!!! Given product number does not belong the product list !!!"); } > 9
           Int count2=0; > 8(1)
           for(int i=0;i<this.phone_number_arr.size();i++)[
               tf(phone_number==this.phone_number_arr.get(i)){
                 count2++; 901
           tf(count2==0){
               this.address_arr.add(index_of_addres_and_phone_number_arr,address); *
                                                                                                      0(a+b
               this.phone number arr.add(index of addres and phone number arr, phone number);
                                                                                        066
               index_of_addres_and_phone_number_arr++; -> O(1)
           int ctr2=0;
           for(int j=0;j<temporary item_number[customer_num].length;j++){
               if(temporary_item_number[customer_num][j]==0){
                                                                    no-2730(9) O(9)
               ctr2++; > 21)
                                                                                                 T(a,b,C,d,e,k,t)
           temporary_item_number[customer_num][ctr2]=num_of_product; > 01
                                                                        best acci) (Ne)
            for(int j=0;j<permanent item_number.get(customer_num).size();j++){
                                                                                               =) (0) + (0) + (0) + (0) + (0) + (0) + (0)
               if(permanent_item_number.get(customer_num).get(j)==0){
                  break:
                                                                                                + O(e) + O(e) + O(E) + O(E) + O(E) + O(E)
               ctr2++; > 911
           permanent_item_number.get(customer_num).add(ctr2,num_of_product);
                                                                            morstable)
            for(int j=0;j<temporary_amount_product_num.get(customer_num).size();j++)(
               if(temporary amount product num.get(customer num).get(j)==0){
                                                                             best + 2(1)(O(t)
                  break;
               ctr2++; > 2(1)
                                                                                              =) O(a+b+C+d+e+k+t)
           temporary_anount_product_num.get(customer_num).add(ctr2,piece_of_product);
     @1 > ctr2=0; >
            for(int j=0;j<permanent_amount_product_num.get(customer_num).size();j++)(
                                                                           (Bettern
               if(permanent_amount_product_num.get(customer_num).get(j)==0)(
                                                                           (19 (10)
               ctr2++; -> 2(1
           permanent amount product num.get(customer_num).add(ctr2,piece_of_product);
```

# previous\_order Method

```
permonent-item-number, permanent-omount-product-num? Array List
  public void previous order(){
       System.out.printin("Your Previous Order(Custoner Number "+customer_num+"):");
    for(int i=0;i<Customer Num Arr.length;i++){

Civint ctr2=0;

iff(Customer Num_Arr[i]==customer_num){

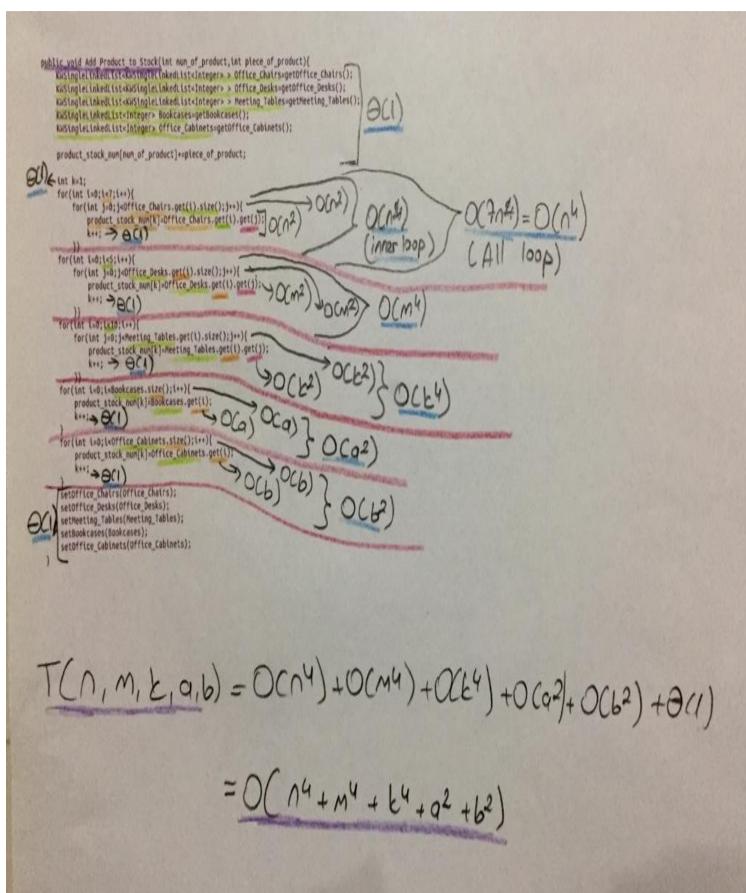
for(int j=0;j<permanent item_number.get(customer_num).size();j++){

Ufformanent item_number.get(customer_num).size();j++){

Ufformanent item_number.get(customer_num).size();j++){
                     [if(permanent_item_number.get(customer_num).get(j)==0){
                          if(ctr2==0){
                              System.out.println("!!!!! There is No Order !!!!!");
                     if(j<completed_order_number[i][0]){
                          System.out.println(permanent item number.get(customer_num).get(j)
+". Product in the List of Product and Amount of Product:"
                               +permanent_amount_product_num.get(customer_num).get(j)+" (DONE)");
                      tf(j>=completed_order_number[i][0]){
                          System.out.println(permanent item_number.get(customer_num).get(j)
                               +". Product in the List of Product and Anount of Product :
                               +permanent amount product num.get(customer_num).get(j));
                      )))))
                                             O (nim) + O(1)
```

### **EMPLOYEE METHODS**

### Add\_Product\_to\_Stock Method



check\_The\_Product\_Stock Method

```
temporary-amount-product-num & Array List
     public void check The Product Stock(){
         kwSingleLinkedList<kwSingleLinkedList<Integer> > Office_Chairs=getOffice_Chairs();
         KWSingleiinkedlist<KWSingleiinkedlist<Integer> > Office Desks=getOffice Desks{);
         KWSingleiinkedList<KWSingleiinkedList<Integer> > Meeting Tables=getMeeting Tables();
         KWSingleLinkedList<Integer> Bookcases=getBookcases();
                                                                                                                  T(a,b,c,d,t,n,m)
         KasingleLinkedList<Integer> Office Cabinets=getOffice Cabinets():
         int k-1;
          for(int i=0;1<7;i++){
             for(int j=0; j=Office_Chairs.get(i).size(); j++){
                                                                                                              =) 0004) +0064) +0004) +0062) +0062) +
                  product_stock_num[k]=Office_Chairs.get(i).get(j):
          for(int (=0;1×5;1++)(
                                                                                                                           +0(nim) +9(1)
              for(int j=0;)=Office Desks.get(i).size();)++){
                  product stock num[k]=Office Desks.get(1).get(j);
          for(int 1=0;1=10;1++)(
              for(int j=0; j=Meeting Tables.get(i).size(); j++){
                  product_stock_num[k]=Meeting Tables.get(i).get(j);
                                                                                                                            [ 24+64+C4+d2+£2+n,m)
          for(int 1=0:1=Bookcases.stze():1++){
              product_stock_num[k]=Bookcases.get(1);
          for(int i=0;i<0ffice_Cabinets.size();i++){
              product_stock_num(k)=Office_Cabinets.get(1);
O() fint less nuned;
             r(Int L=0;1<Customer Num Arr.length;1++){ <
                                                                            Ta(b) (n)= O(1)
              Int counter=0:
              if(Customer_Num_Arr[1+1]==0){
                  break;
                   pre_cust_order(Customer_Num_Arr[1]);
               atch(ClassException e){
                  System.out.println();
                 (int j=0;)<temporary_item_number(i).length;j++)( <
                                                                              72(b)(m)=O(1)} To(m)=O(m)
                  if(temporary_item_number[Customer_Num_Arr[i]][0]==0)[
                      counter++;
          80
                      breaks
                 If(tenporary_tten_number[Customer_Num_Arr[i]][j]==0)( break; )

(If(product_stock_num[temporary_tten_number[Customer_Num_Arr[i]][j]]*temporary_anount_product_num.get(Customer_Num_Arr[i]).get(j)){

less_num=temporary_anount_product_num.get(Customer_Num_Arr[i]).get(j)-product_stock_num[temporary_tten_number[Customer_Num_Arr[i]][j]);

System.out.println("Dear Administrator "*temporary_ttem_number[Customer_Num_Arr[i]][j]*". Product_less: "* tess_num * " Therefore it an adding !!!");
                      Add_Product_to_Stock((temporary_item_number[Customer_Num_Arr[i]][j]),less_num);
                  System.out.println("!!!All Order's Anounts are enough in the Stock!!!");
               System.out.println();
```

### Create\_Order\_List\_For\_Market\_Customer Method

```
address - arr, phase - number - arr, temporary - amount - product _ num, permanent - item - number, ) Array hat
                                 Demonat - amount - product - num
    public void Create Order List For Market Customer(String address, String phone number, int num of product, int piece of product) throws classException(
         Int count 300, count 4-0, count 500:
        Company person*new Customer("default", "default", "default", "default");
         for(int 1=0;1<address_arr.size();1++)(
             if(address.equals(address_arr.get(i)))()
         for(int t=0:1<phone number arr.size():1++){
    tf(phone number.equals(phone number arr.get(t))){
         1f(count3==0 && count4!=0){
             throw new ClassException("!!! Given phone number using for other customer !!!");
           or(int 1=0;1<product list num.length;1++){
             if(num_of_product==product_list_num[i]){
                 count5++;
          lf(counts==0)[
              throw new ClassException("!!! Given product number does not belong the product list !!!");
              int index of addres and phone number arra((Customer)person).getindex of addres and phone number arr(); -> 2(1)
              address arr, add(index of addres and phone number arr, address); -
              Index of addres and phone number arres; \rightarrow \Theta(1) arr(Index of addres and phone number arr); \rightarrow \Theta(1)
              temporary_ltem_number[customer_num][index_of_permanent_and_temporary_arrays]=mum_of_product; ->> \(\text{OCA}\)\)
temporary_anount_product_num.get(customer_num).add(index_of_permanent_and_temporary_arrays,plece_of_product); -
              permanent item number.get(customer_num).add(index_of_permanent_and_temporary_arrays,num_of_product):

permanent_amount_product_num.get(customer_num).add(index_of_permanent_and_temporary_arrays,plece_of_product);
              Index_of_pernanent_and_temporary_arrays++; |>841
              ((Customer)person).setAdress(address_arr);
              ((Customer)person).setPhone_numbe(phone_number_arr);
              ((Customer)person).setTemporary_item_number(temporary_item_number);
              ((Customer)person).setTemporary_amount_product_num(temporary_amount_product_num);
               ((Customer)person).setPermanent_ttem_number(permanent_ttem_number);
               ((Custoner)person).setPermanent_amount_product_num(permanent_amount_product_num);
  T(n,m,k,p,t,a)=\(\text{0(n)}+\text{0(m)}+\text{0(m)}+\text{0(p)}+\text{0(d)}+\text{0(d)}+\text{0(d)}+\text{0(d)}
                                                        =) O(n+m+p+++a+k)
```

# Selling\_Ordered\_Products Method

```
temporary-amount-product-num, temporary-amount-product-num & Array List
   public void Selling Ordered Products(){
Trustinglet inkeditstexasinglet inkeditsteinteger> > Office_Chairs=getOffice_Chairs();
      Kasingleinkedlist-Kusingleinkedlist-Integer> > Office Desks/getOffice Desks();
      KNSIngleLinkedList<KNSingleLinkedList<Integer> > Meeting Tables=getMeeting Tables();
      AkkingletinkedList«Integer» Bookcases=getBookcases();
      AusingleLinkedList<integer> Office (abinets=getOffice Cabinets();
      Company person-new Customer("default", "default", "default");
       for(int 1=0;1=Customer Num Arr.length;1++)[ -
                                                                                                                     1(n)=O(n
         Int countered;
          lf(Customer_Num_Arr[1]==0){
             System.out.printin("....EMPLOYEE SAY THAT:"):
              System.out.printin("-----
              System.out.println();
              break:
                                                                                                                         T2 (M) = O(M)
          The(int jud; jetemporary item number[i].length; j++)[ ...
             Mf(temporary item number[Customer Num Arr[1]][5]==0)[
                 completed order number[1][0]+=counter;
        QI
                 break;
              maduct_stock_nun[temporary_item_number[customer_itum_Arr[i]][]]:=temporary_angunt_product_num.get(Customer_itum_Arr[i]).get(j): | 6/1
     ⊖(1) stemporary_tem_number[Customer_Num_Arr[[]][]]=0;
              temporary amount product num.get(Customer Num Arr[1]).add(),0);
                                                                                              OCI)
                                                                          T3(6)=Q(6)
      [((Customer)person).setCompleted_order_number(completed_order_number);
       ((Customer)person).setTemporary_ttem_number(temporary_ttem_number);
      ((Custoner)person).setTemporary_anount_product_oum(temporary_amount_product_num);
       int k=1;
for(int i=0;i=7;i++){
           for(int j-0;)-Office Chairs.get(1).size():j++){
              product stock nun(k)=Office Chairs.get(t),get(j);
                                                                                    I(n, m, k, a, b, c, d, t)=
       for(int 1:0; 1:5; 1++){
                                                                                 =) O(M.nk) + O(04) + O(64) + O(64) +
           for(int j=0;)<0ffice_Desks.get(t).size();)++)(
              product_stock_num[k]=Office_Desks.get(t).get(j);
        for(int 1:0;1<10;1++){
           for(int j=0;)=Meeting Tables.get(i).size();)++){
    product_stock_num[k]=Meeting_Tables.get(i).get(j);
                                                                                       +0(J2)+0(t2)+0(1)
        for(int 1:0;1:Bookcases, size();1++){
           product_stock_num[k]=Bookcases.get(t);
        for(int 1=0;1=0ffice_Cabinets.stze();1++)[
           product_stock_num(k)=Office_Cabinets.get(1);
                                                                                               mink + 94 + 64 + 64 + 62 + 62
        setOffice Chairs(Office Chairs):
        setOffice Desks(Office Desks);
        setMeeting_Tables(Meeting_Tables);
        setBookcases(Bookcases);
        setOffice_Cabinets(Office_Cabinets);
```

## **Other Method**

```
public Customer Create New Account For Market Customer(String name, String surname, String e_mail, String password)(
    Company personanew Customer("default", "default", "default");
    customer num=((Customer)person2).getRandom_special_customer_num();
    Company person-new Customer(name, surname, e_mail, password, customer_num);
    return ((Customer)person);
public void Supply Office Chairs(int number, int num of model, int num of color)(
    KWSingleLinkedList-KWSingleLinkedList-Integer> > Office_Chairs-getOffice_Chairs(); -> OC!
    office Chairs, add(new KWSingleLinkedList<Integer>()); -> (()
    Office Chairs.get(num of model).add(num of color,number);
    setOffice Chairs(Office Chairs);
 public vold Supply Office Desks(int number, int num of model, int num of color){
    RisingleLinkedList<RisingleLinkedList<Integer> > Office_Desks-getOffice_Desks(); -> @(1
     Office Desks.add(new KWSingleLinkedList<Integer>()); -> ()(m)
     Office Desks.get(num_of_model).add(num_of_color,number);
     setOffice_Desks(Office_Desks);
 public void Supply Meeting Tables(int number, int num of model, int num of color){
     KwSingletinkeditst<KwSingletinkeditst<Integer>> Meeting Tables=getMeeting Tables():
     Meeting Tables.add(new KWSingleLinkedList<Integer>()); -> O( q
                                                                                                                        Tca) = OCa2)
     Meeting Tables.get(num of model).add(num of color,number);
     setMeeting Tables(Meeting Tables); > OCI
                                                                   0602
 public void Supply Bookcases(int number, int num of model){
     KusingleLinkedList<Integer> Bookcases=petBookcases(); > 9(1
                                                                                                                   T(b) = O(b)
T(c) = O(c)
     Bookcases.add(num_of_model,number);-> ()
      setBookcases(Bookcases);
  public yold Supply Office Cabinets(int number, int num_of_model)(
     Kwsingletinkeditst<Integer> Office Cabinets=getOffice Cabinets(); > 90
     Office Cabinets.add(num of model,number);
      setOffice_Cabinets(Office_Cabinets);
```