ASSIGNMENT ANSWERS 1

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#QUESTION 1
public class Main{
public static void main(String[] args){
int nums[] = {-2,7,11,5,2};
int target = 9;
int output[] = new int[2];
for(int i=0; i<nums.length; i++){</pre>
for(int j=i+1; j<nums.length; j++){</pre>
if((nums[i]+nums[j])==target){
output[0] = i;
output[1] = j;
break;
}
}
}
System.out.println(output[0]+" "+output[1]);
}
}
```

```
#QUESTION 2
public class Main{
public static void main(String[] args){
int ar[] = \{3,2,2,3\};
int target = 3;
int n = remov(ar, target);
System.out.println(n);
for(int i=0; i<ar.length; i++){</pre>
System.out.print(" "+ar[i]);
}
}
public static int remov(int ar[], int target){
int c=0;
for(int i=0; i<ar.length; i++){</pre>
if(ar[i] == target){
shift(ar, i, ar.length-1-c);
ar[ar.length-1-c]=0;
C++;
}
}
return c;
}
public static void shift(int ar[],int from, int till){
for(int i=from; i<till; i++){</pre>
ar[i] = ar[i+1];
}
```

```
#QUESTION 3
def searchInsert(nums, target):
start = 0
end = len(nums) - 1
while start <= end:
mid = (start + end) // 2
if nums[mid] == target:
return mid
elif target < nums[mid]:</pre>
end = mid - 1
else:
start = mid + 1
return start
nums = [1, 3, 5, 6]
target = 5
print(searchInsert(nums, target))
```

```
#QUESTION 4
public class Main{
public static void main(String[] args){
int ar[] = {1,2,3,4};
ar[ar.length-1]=ar[ar.length-1]+1;
for(int i=0; i<ar.length; i++){
System.out.print(ar[i]+" ");
}
}</pre>
```

```
#QUESTION 5
public class Main {
public static int[] merge(int[] nums1, int m, int[] nums2, int n) {
int i = m - 1;
int j = n - 1;
int k = m + n - 1;
while (i \ge 0 \&\& j \ge 0) {
if (nums1[i] > nums2[j]) {
nums1[k] = nums1[i];
i--;
} else {
nums1[k] = nums2[j];
j--;
}
k--;
}
while (j \ge 0) {
nums1[k] = nums2[j];
j--;
k--;
}
return nums1;
}
public static void main(String[] args) {
int[] nums1 = {1, 3, 5, 0, 0, 0};
int m = 3;
```

```
int[] nums2 = {2, 4, 6};
int n = 3;
int[] merge = merge(nums1, m, nums2, n);
for(int i=0; i<merge.length; i++) {
    System.out.print(merge[i]+" ");
}
}</pre>
```

#QUESTION 6

nums = [1,2,3,1]

n1 = list(set(nums))

n1 = len(n1)

n2 = len(nums)

print((n1!=n2))

```
#QUESTION 7
public class Main{
public static void main(String[] args){
int ar[] = \{0,1,2,0,3,1,0,0,3,9\};
int I = 0;
for(int i=0; i<ar.length; i++){</pre>
if(ar[i]!=0){
ar[l] = ar[i];
l++;
}
}
while(I<ar.length){</pre>
ar[l]=0;
l++;
}
for(int i=0; i<ar.length; i++){</pre>
System.out.print(ar[i]+" ");
}
}
}
```

```
#QUESTION 8
public class Main{
public static void main(String[] args){
int ar[] = {1,2,2,4};
for(int i=0; i<ar.length-1; i++){
  if(ar[i]==ar[i+1]){
  System.out.println(ar[i]+" "+(ar[i]+1));
  break;
}
}
}</pre>
```