Week 1 – assignment

```
Question-1 (Two Sum)
class Solution {
      public int[] twoSum(int[] numbers, int target) {
            HashMap <Integer, Integer> mpp = new HashMap<>();
            int [] arr = new int[2];
            arr[0] =arr[1]=-1;
            for(int i =0;i<numbers.length;i++){</pre>
                   int moreNeeded = target- numbers[i];
                   if(mpp.containsKey(moreNeeded)){
                      arr[0] = mpp.get(moreNeeded)+1;
                      arr[1] = i+1;
                   }
                   else{
                         mpp.put(numbers[i],i);
            }
            return arr;
      }
}
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                                                               class Solution {
  public int[] twoSum(int[] numbers, int target) {
    HashMap cInteger, Integer> mpp = new HashMap<>();
  int [] arr = new int[2];
  arr[0] =arr[1]=1;
  for(int i =0;icnumbers.length;i++){
    int moreNeeded = target-numbers[1];
    if(mpp.containskey(moreNeeded)){
       arr[0] = mpp.get(moreNeeded)+1;
       arr[1] = i+1;
    }
}
 Accented 24 / 24 testrases passed
                                   arnabdas1999 submitted at Mar 04, 2025 21:23
   9 ms Beats 10.37%
   Analyze Comp
                                                                           mpp.put(numbers[i],i);
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 Accepted Runtime: 0 ms
 • Case 1 • Case 2 • Case 3
Question 2
class Solution {
      public int[] productExceptSelf(int[] nums) {
             int [] result = new int [nums.length];
            result[0] = 1;
```

for(int i=1;i<nums.length;i++){</pre>

```
result[i] = nums[i-1]*result[i-1];
                                                                                                 }
                                                                                                 int suffix =1;
                                                                                                 for(int i= nums.length-1;i>=0;i--){
                                                                                                                                                 result[i] *= suffix;
                                                                                                                                                 suffix *= nums[i];
                                                                                                 }
                                                                                                 return result;
                                                 }
}
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   public int[] roductExceptSelf(int[] nums) {
      int [] result = new int [nums.length];
      result[0] = 1;
      for(int i=1;inums.length;i++){
            result[i] = nums[i-1]*result[i-1];
      }
}
                   Accepted 24 / 24 testcases passed
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                                    2 ms | Beats 87.89% 🐝
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or(int i= nums.length-1;i>=0;i--){
  result[i] *= suffix;
  suffix *= nums[i];
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                     Input
                          [1,2,3,4]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Run Submit
```

Question 3

```
class Solution {
    public void sortColors(int[] nums) {
        int low=0,mid=0,high=nums.length-1;
        while(mid<=high){</pre>
            if(nums[mid] == 0){
                int temp = nums[low];
                nums[low]=nums[mid];
                nums[mid] = temp;
                low++;
                mid++;
            }
            else if(nums[mid]==1){
                mid++;
            else {
                int temp = nums[mid];
                nums[mid]=nums[high];
                nums[high] = temp;
```

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high--;
                                                                                                           }
                                                                        }
                                   }
}
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         ← All Submissions
                                                                                                                                                                                                                                                                                                                                                                      class Solution {
    public int[] productExceptSelf(int[] nums) {
        int [] result = new int [nums.length];
        result[e] = !;
        for(int i=1;i<nums.length;i++){
            result[i] = nums[i-1]*result[i-1];
        }
        int suffix = !;
        for(int i= nums.length-1;i>=0;i--){
            result[i] *= suffix;
            suffix *= nums[i];
        }
}
                                                                                                                                                                                                      arnabdas1999 submitted at Mar 04, 2025 21:26
                       2 ms | Beats 87.89% 📦
                      Analyze Complexity
                                                                                                                                                                                                                                                                                                                                                                                                   } return result;
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           _ Test Result
              Accepted Runtime: 0 ms
               • Case 1 • Case 2
              Input
                 [1,2,3,4]
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