

Vectors (Assignment Solutions)

Question 1:

```
vector<int> findErrorNums(vector<int>& nums) {
      int n = nums.size();
      vector<bool> isPresent(n+1, false);
              ans.push_back(nums[i]);
      for(int i=1; i<isPresent.size(); i++) {</pre>
               ans.push_back(i);
      return ans;
```

Note - This solution is brute force & more optimized approaches for the same Qs exist that use Bit Manipulation.



Question 2:

```
int maxArea(vector<int>& height) {
    int left = 0;
    int right = height.size() - 1;
    int maxArea = 0;

while (left < right) {
        int currentArea = min(height[left], height[right]) * (right - left);

        maxArea = max(maxArea, currentArea);

        if (height[left] < height[right]) {
            left++;
        } else {
            right--;
        }
    }
}

return maxArea;
</pre>
```

Question 3:

```
vector<vector<int>> threeSum(vector<int>& nums) {
    vector<vector<int>> ans;
    int n = nums.size();

    sort(nums.begin() , nums.end());

    for(int i=0; i<n; i++) {
        if(i>0 && nums[i] == nums[i-1]) {
            continue;
        }

    int j = i+1;
    int k= n-1;
```



```
ans.push_back(temp);
while (j < k \& \& nums[j] == nums[j-1]) {
while (j < k \&\& nums[k] == nums[k+1]) {
```

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