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78. Subsets

Solved

Medium | Topics | Companies

Given an integer array `nums` of **unique** elements, return *all possible subsets (the power set)*.

The solution set **must not** contain duplicate subsets. Return the solution in **any order**.

Example 1:

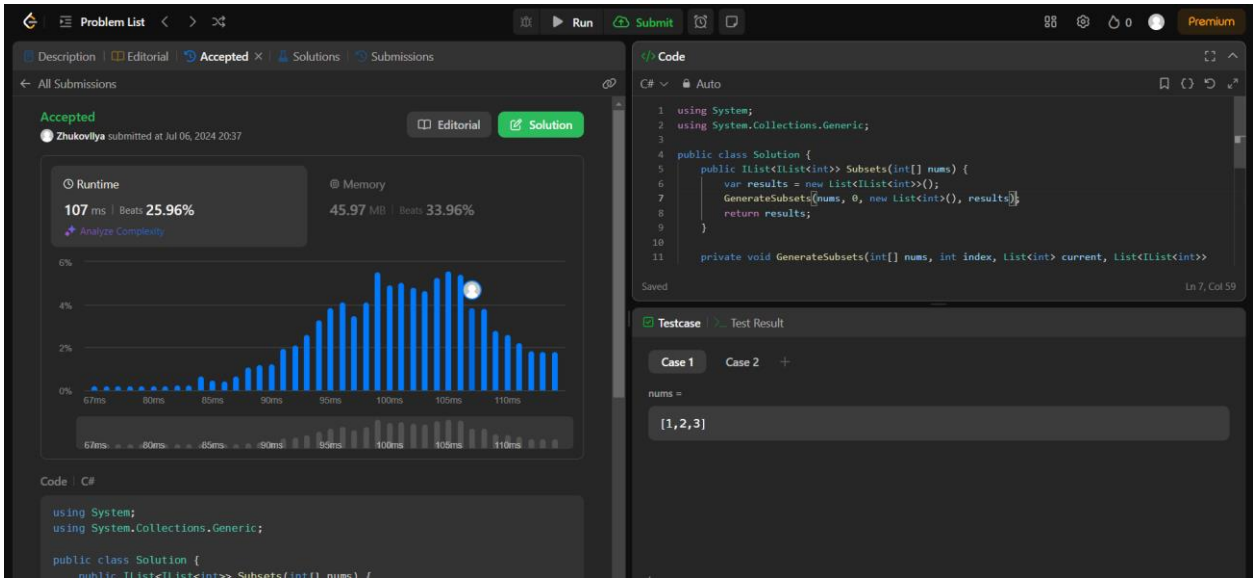
```
Input: nums = [1,2,3]
Output: [[],[1],[2],[1,2],[3],[1,3],[2,3],[1,2,3]]
```

Example 2:

```
Input: nums = [0]
Output: [[],[0]]
```

Constraints:

- `1 <= nums.length <= 10`
- `-10 <= nums[i] <= 10`
- All the numbers of `nums` are **unique**.



Код:

```
using System;
using System.Collections.Generic;

public class Solution
{
    public IList<IList<int>> Subsets(int[] nums)
    {
```

```
        var results = new List<IList<int>>();
        GenerateSubsets(nums, 0, new List<int>(), results);
        return results;
    }

    private void GenerateSubsets(int[] nums, int index, List<int> current,
List<IList<int>> results)
    {
        results.Add(new List<int>(current));

        for (int i = index; i < nums.Length; i++)
        {
            current.Add(nums[i]);
            GenerateSubsets(nums, i + 1, current, results);
            current.RemoveAt(current.Count - 1);
        }
    }
}
```