Contribution Technique

2. Contribution Technique:

Problem: The contribution technique is used to solve problems where you need to calculate the contribution of each element to a result.

Approach: Break down the problem into smaller parts, calculating the contribution of each element to the final answer.

Scenarios:

1. **Subarray Sum Contribution:** In problems where you need to find the sum of all subarrays, the contribution technique helps compute the contribution of each element to the sum.

2. **Counting Subarrays with a Property:** If you need to count subarrays that satisfy certain conditions, the contribution technique can be applied.

3. **Prefix and Suffix Contribution:** For problems involving prefix and suffix sums, the contribution technique can be used to calculate how each element contributes to the final result.

Java Code:

```
public class Solution {
    public int totalSum(int[] arr) {
        int n = arr.length;
        int sum = 0;
        for (int i = 0; i < n; i++) {
            sum += arr[i] * (i + 1) * (n - i);
        }
        return sum;
    }
```

```
}
```

Explanation: Each element contributes to the sum based on its position in the array.