Practice Question

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Solution 1:-
class Solution {
  public int peakElement(int[] arr, int n) {
     int low = 0;
    int high = n - 1;
    while (low < high) {
       int mid = low + (high - low) / 2;
       if (arr[mid] > arr[mid + 1]) {
         high = mid; // Potential peak is on the left side
       } else {
         low = mid + 1; // Potential peak is on the right side
       }
     }
    return low; // 'low' represents a peak element
  }
}
Solution 2:-
class Solution {
  public long count(int coins[], int N, int sum) {
    long[] dp = new long[sum + 1];
    dp[0] = 1; // Base case
    for (int coin : coins) {
       for (int i = coin; i \le sum; i++) {
         dp[i] += dp[i - coin];
       }
    }
```

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return dp[sum];
}
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