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From .Net C# Technical Interviews:

Puzzle: FirstDuplicate

The Goal: Find the first duplicate value in an array where the second occurrence has the minimal index. No duplicates? Return -1.

Why It Matters: Understanding data structures and achieving optimal time and space complexity can make or break your interview. Plus, it's a great way to showcase your problem-solving skills in C#.

Pro Tip: Utilize a HashSet for its fast lookup capabilities to track previously seen numbers. This approach ensures $O(n)$ time complexity with minimal additional space requirement.

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```
public int FirstDuplicateValue(int[] array) {  
    HashSet<int> seen = new HashSet<int>();  
  
    foreach (int num in array)  
    {  
        if (seen.Contains(num))  
        {  
            return num;  
        }  
        seen.Add(num);  
    }  
  
    return -1; // No duplicates found  
}
```

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