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| Iteration Method | Recursion Method | Dynamic Programming |
| Advantages: 1 - Simple to understand and implement.  2 - Good for small values of n. | Advantages:  1 - Code is simple and elegant | Advantages: 1 - Time complexity is O(n) which is much more efficient compared to the recursive approach.  2 - Can handle large values of n without stack overflow. |
| Disadvantages: 1 - Time complexity is O(n) which makes it inefficient for larger values of n | Disadvantages: 1 - Time complexity is O(2^n) which makes it very slow for larger values of n.  2 - Can lead to stack overflow for larger values of n. | Disadvantages: 1 - Code is slightly more complex than the recursive approach.  2 - More memory usage than the recursive approach. |