Reverse An Array

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⊷ difficulty	Easy
_≔ tags	Vector
c language	C++
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⊘ link	https://www.geeksforgeeks.org/problems/reverse-an-array/1

Intuition

The problem requires reversing an array, which is a common operation in programming. Using built-in functions simplifies implementation, ensures correctness, and improves readability.

Approach

- 1. Utilize the reverse function from the C++ Standard Library to reverse the array inplace.
- 2. The reverse function operates on a range, defined by iterators, and swaps elements
 iteratively to achieve the reversal.
- 3. This approach is efficient and concise, leveraging the STL's well-optimized functionality.

Complexity

Time Complexity:

• **O(n)**: The reverse function iterates through half the array, swapping elements at opposite ends. Thus, the complexity is proportional to the size of the array, n.

Space Complexity:

• **0(1)**: The operation is performed in-place, requiring no additional memory.

Code

```
class Solution {
  public:
    void reverseArray(vector<int> &arr) {
       reverse(arr.begin(), arr.end());
    }
};
```

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