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| **ID** | **Description** | **Steps** | **Input size** | **Expected Result** | **Actual Result** | **Status** |
| TC1 | Check sorting for small array | Run sorting on an array with 10 elements | 10 | Sorted array in ascending order | Matches expected result | Pass |
| TC2 | Check sorting for medium array | Run sorting on an array with 100 elements | 100 | Sorted array in ascending order | Matches expected result | Pass |
| TC3 | Check sorting for large array | Run sorting on an array with 1000 elements | 1000 | Sorted array in ascending order | Matches expected result | Pass |
| TC4 | Check sorting for max array size | Run sorting on an array with maximum allowed size | MAX\_SIZE (2000) | Sorted array in ascending order | Matches expected result | Pass |
| TC5 | Check with already sorted array | Run sorting on an array that is already sorted in ascending order | 100 | Array remains sorted | Matches expected result | Pass |
| TC6 | Check with reverse-sorted array | Run sorting on an array sorted in descending order | 50 | Sorted array in ascending order | Matches expected result | Pass |
| TC7 | Test with all duplicate elements | Run sorting on an array with all elements the same | 20 | Array remains unchanged | Matches expected result | Pass |
| TC8 | Test with array having negative elements | Run sorting on an array with both positive and negative integers | 30 | Sorted array in ascending order | Matches expected result | Pass |
| TC9 | Array exceeding max allowed size | Try sorting an array larger than MAX\_SIZE | MAX\_SIZE+1 | Error or handled response due to size limit | Error message displayed as expected | Fail |
| TC10 | Test with non-integer characters | Attempt to sort an array with invalid characters (non-integer input) | 10 | Error or handled response due to invalid input | Error message displayed as expected | Fail |