**RAJALAKSHMI ENGINEERING COLLEGE**

**RAJALAKSHMI NAGAR, THANDALAM – 602 105**



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| **CS23331 DESIGN AND ANALYSIS OF**  **ALGORITHMS** |
| **Laboratory Record Note Book** |

Name : V.PRINCESS DARLENE KARONAH

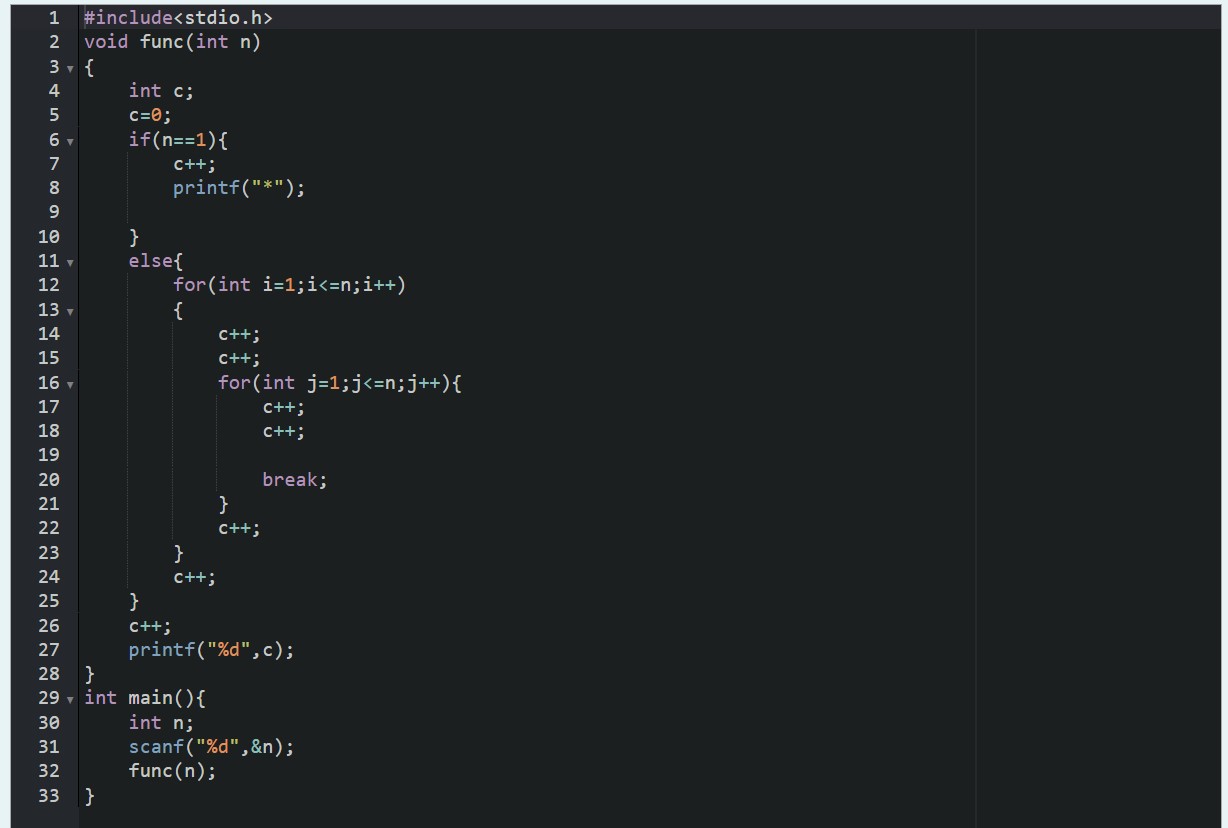
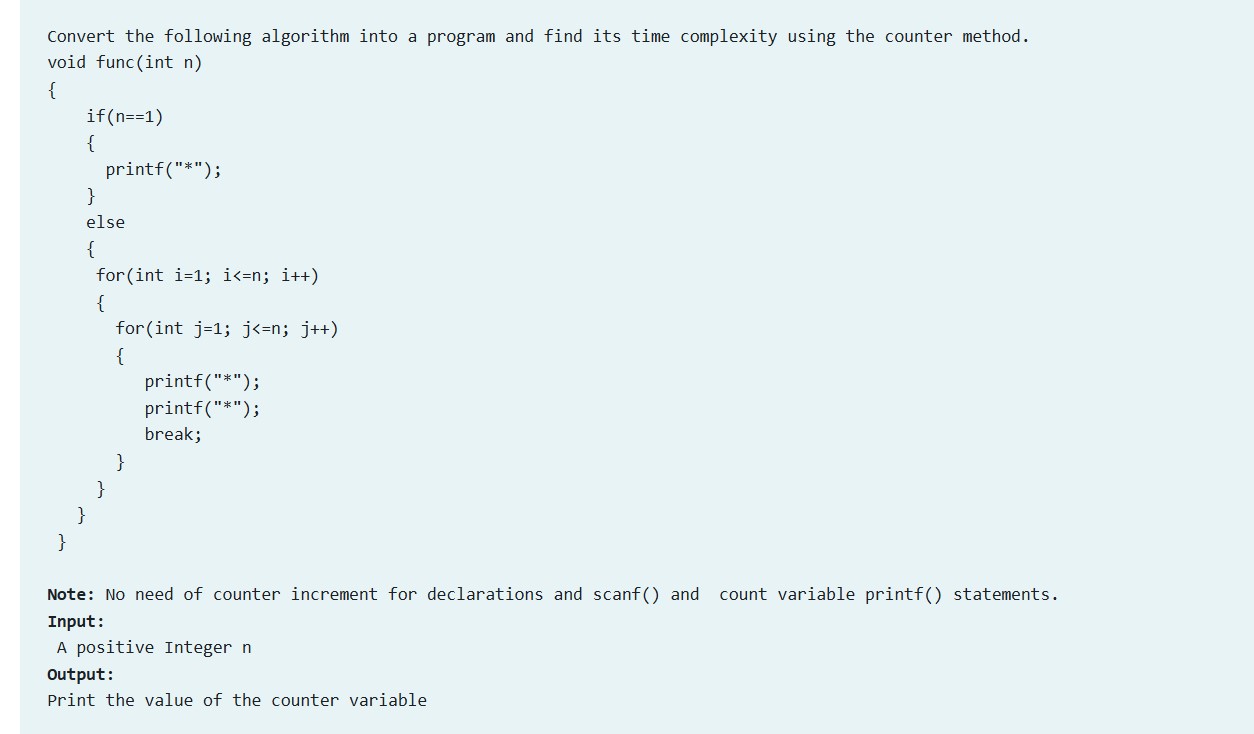
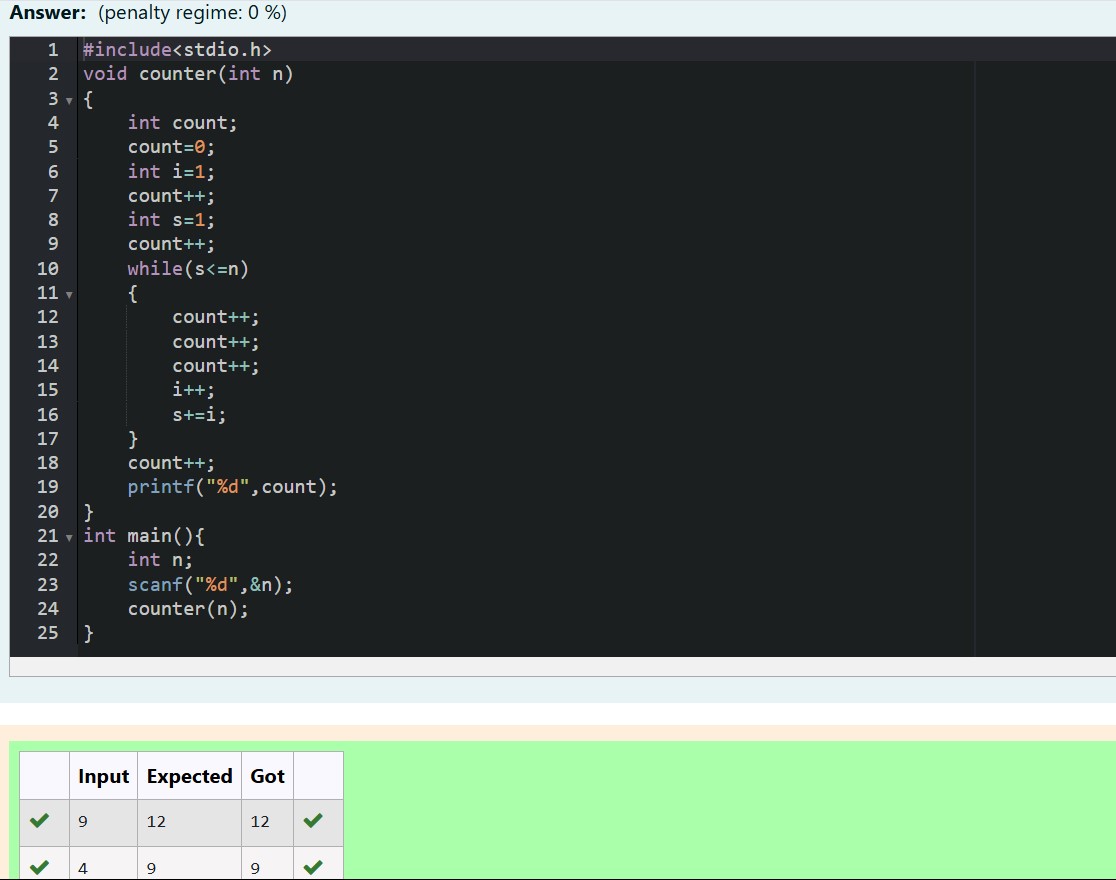
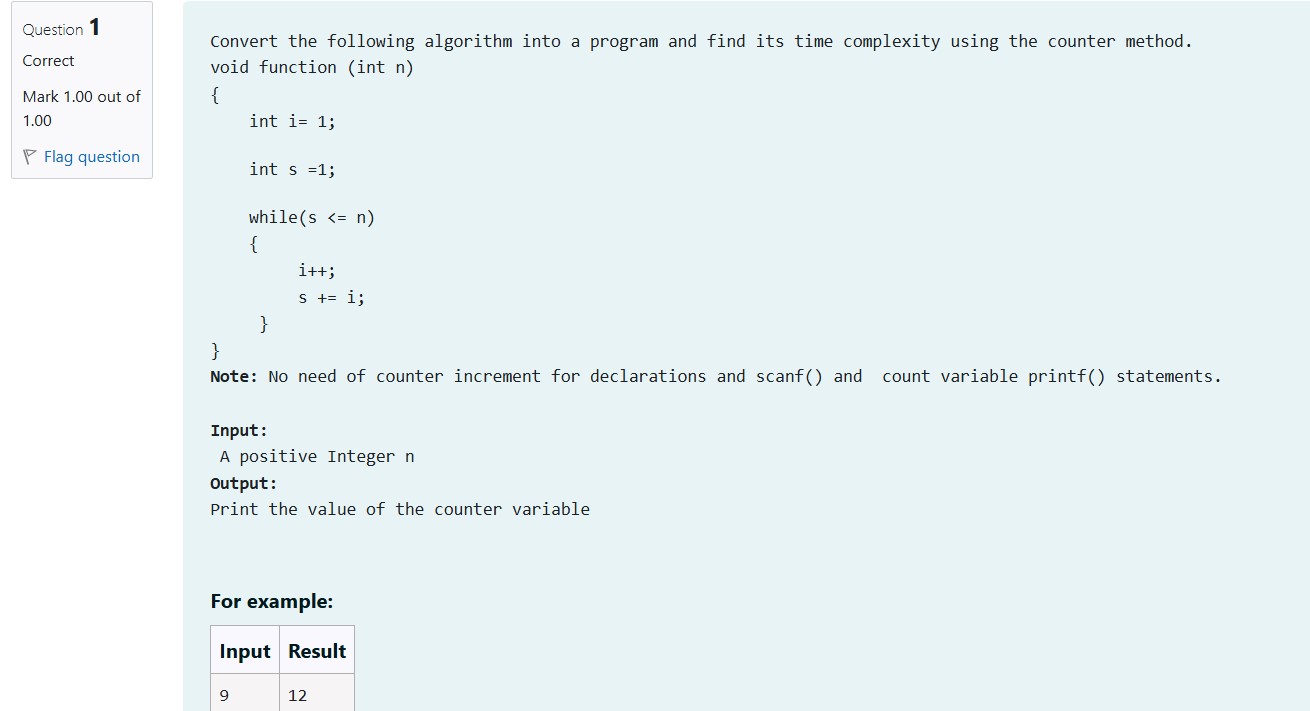
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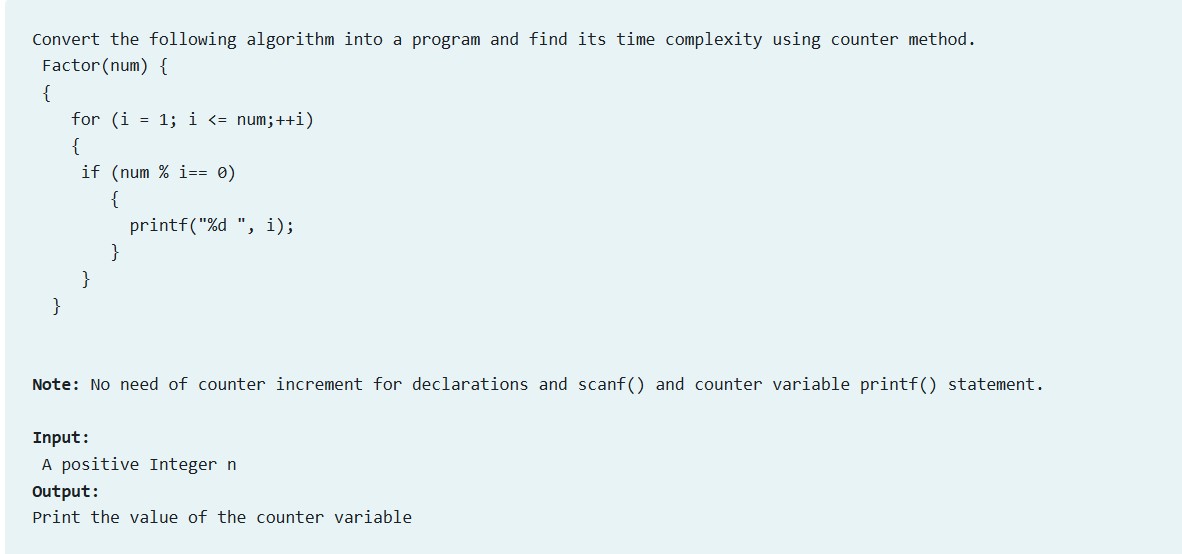
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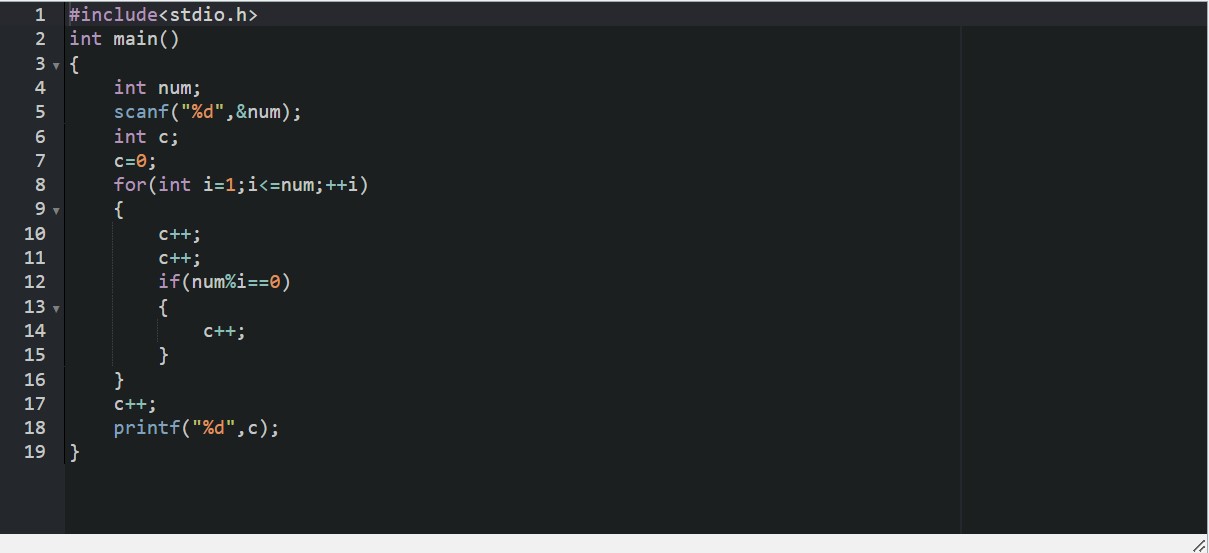
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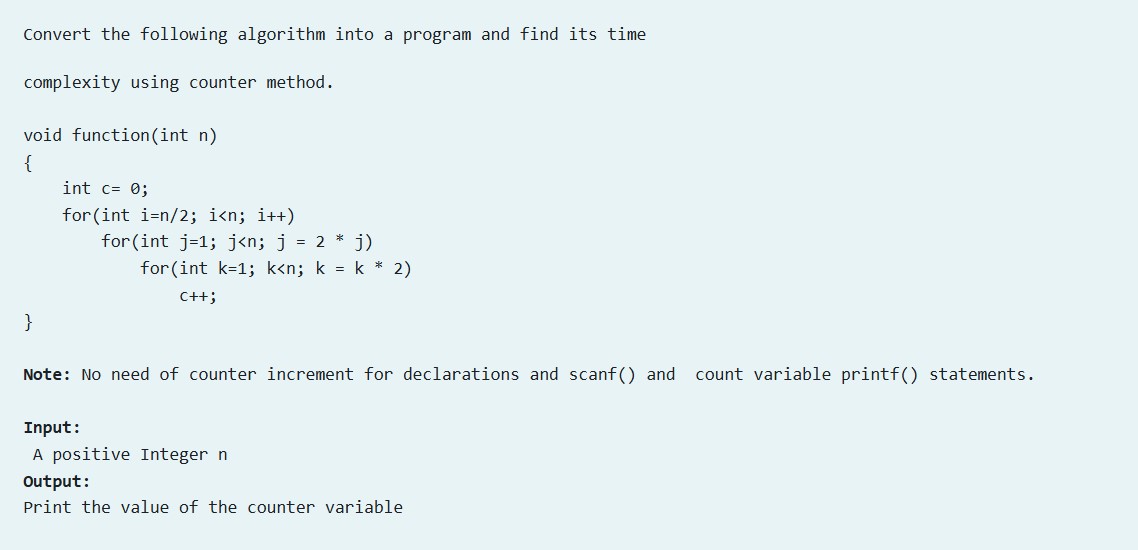
Semester : III

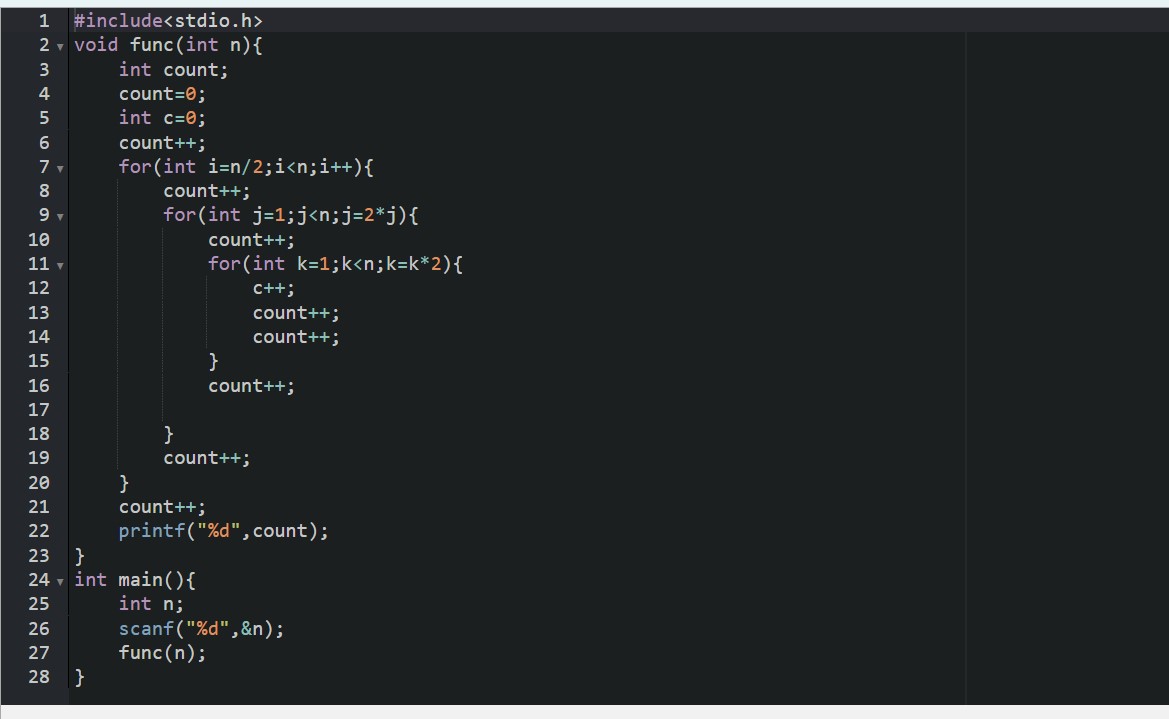
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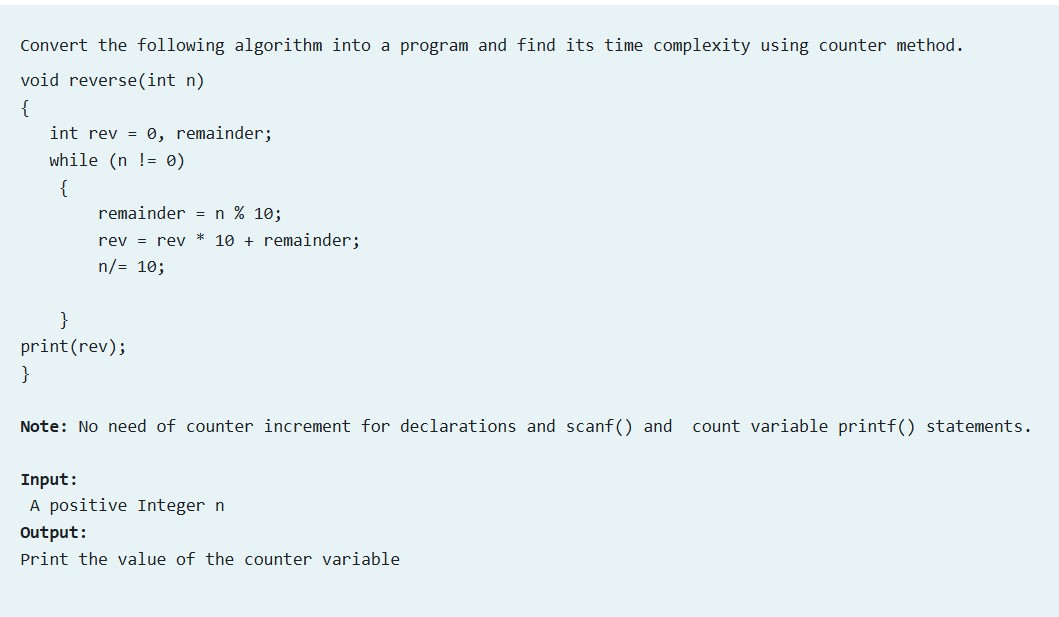








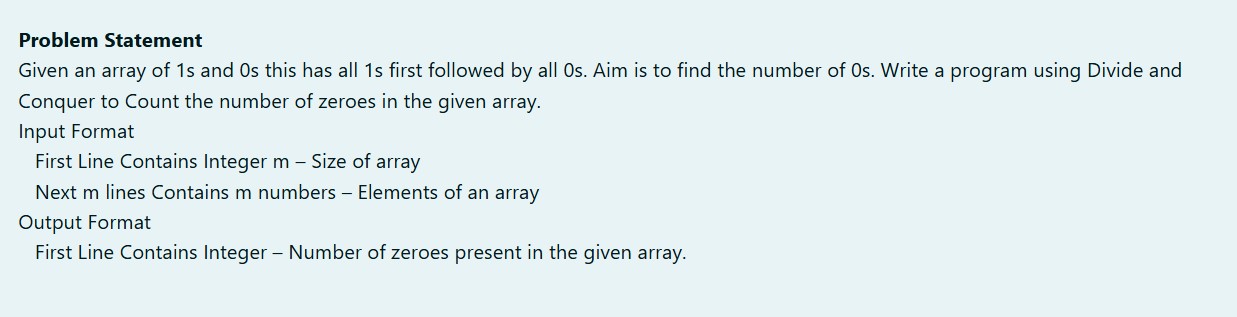


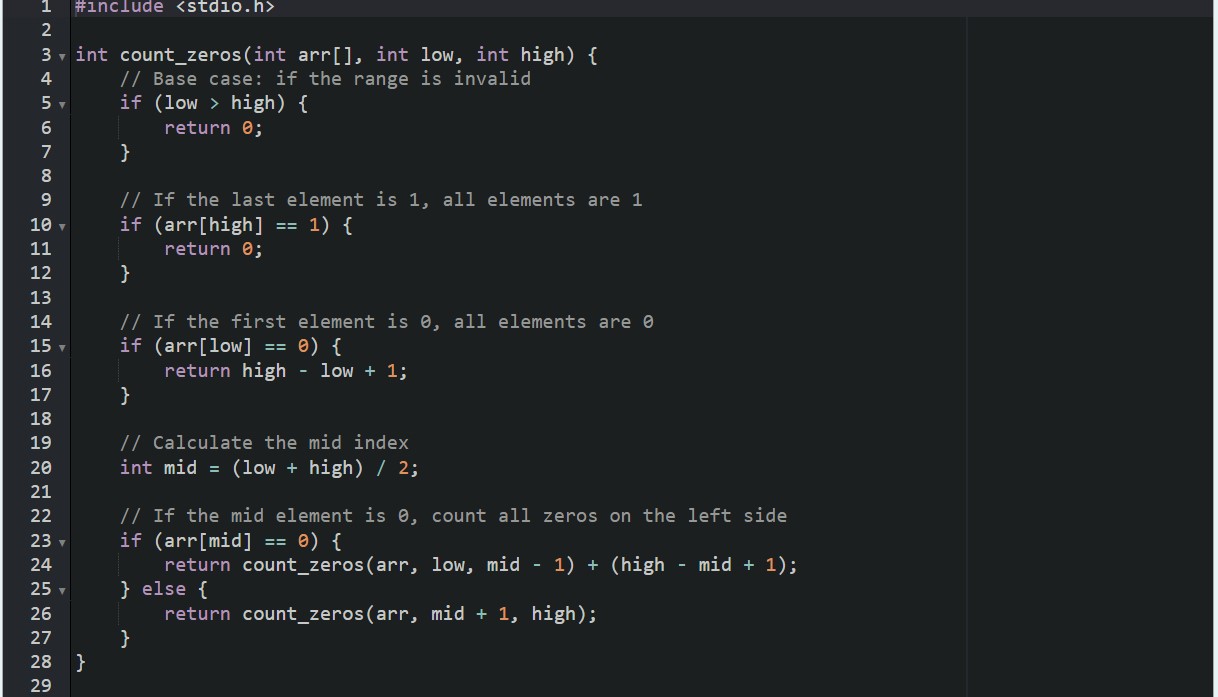


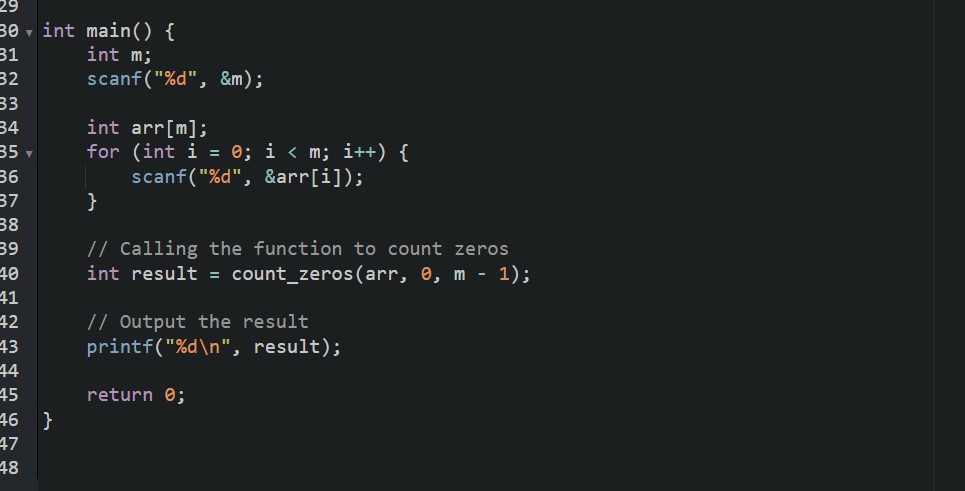


Divide and conquer

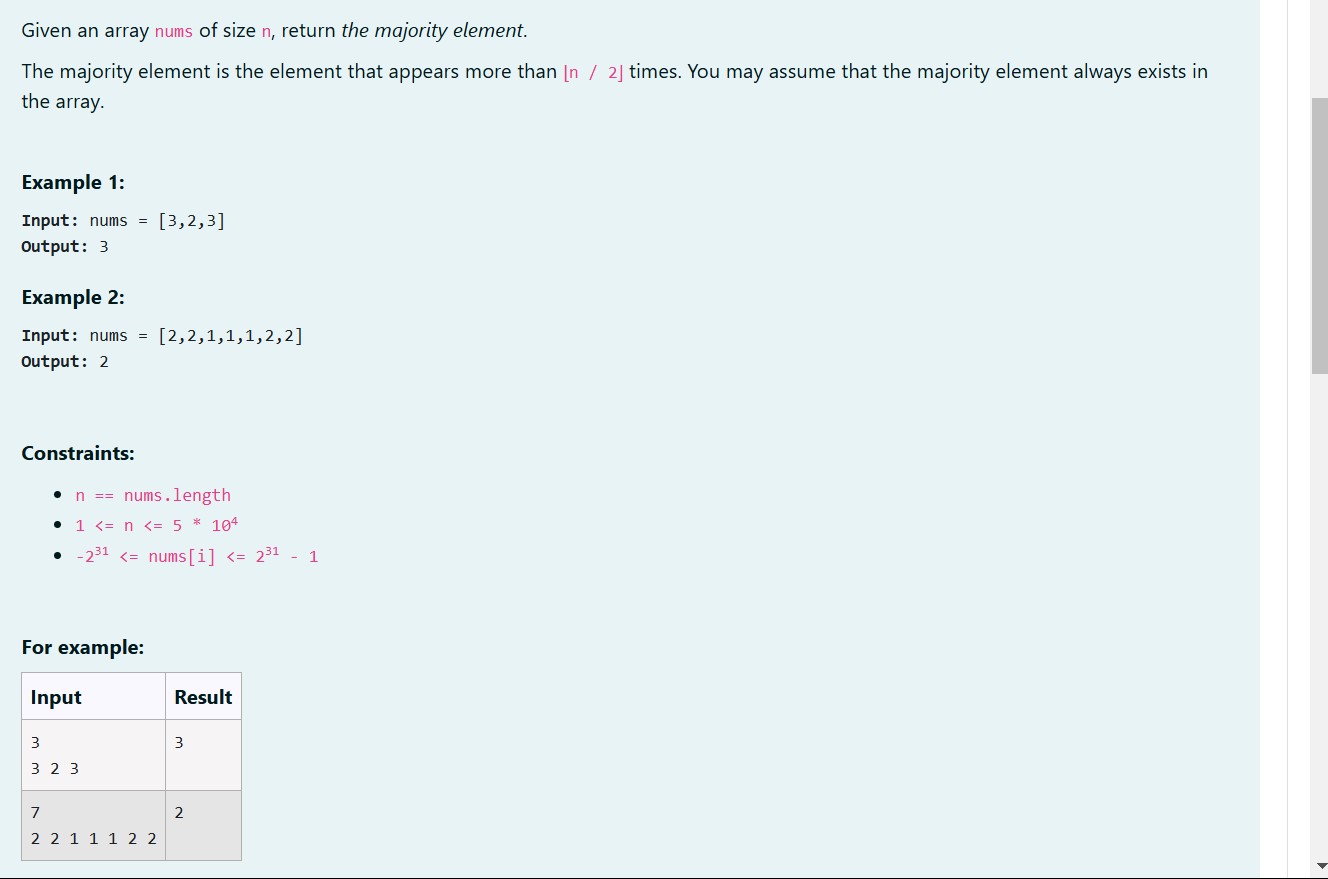
1. Number of zeros in given array

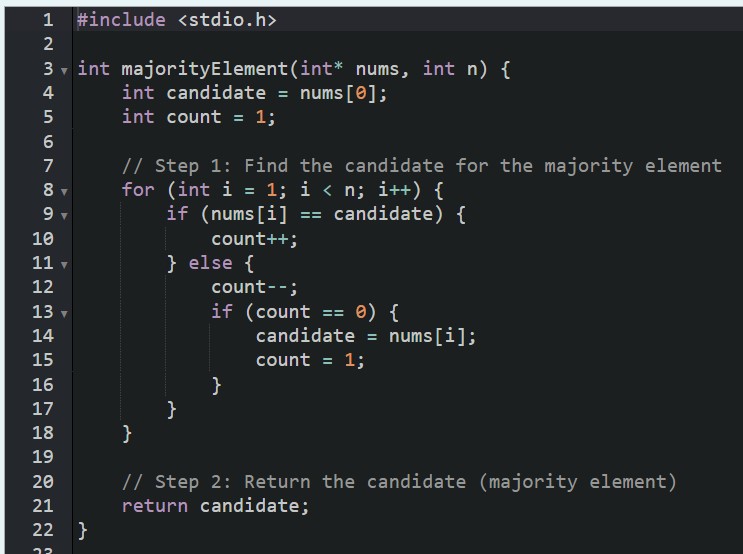


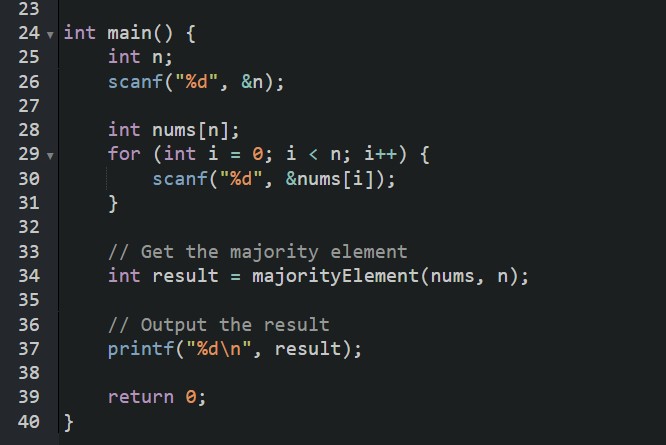




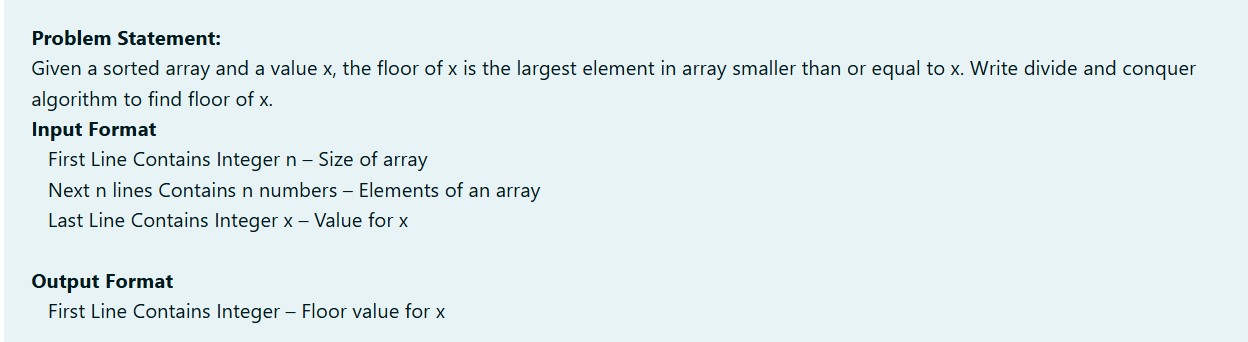
1. Majority element

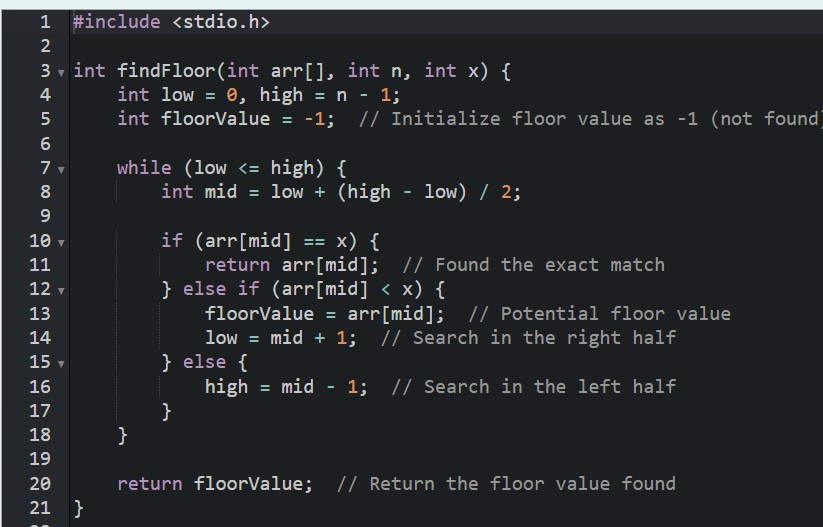


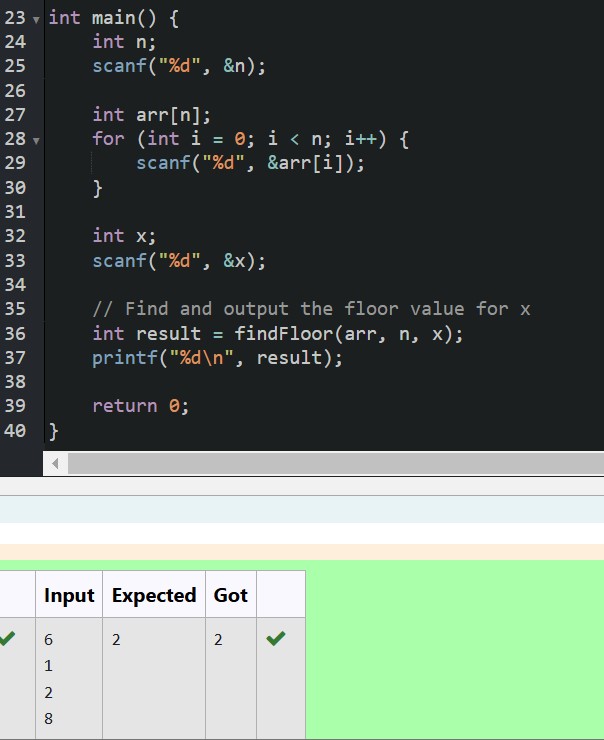




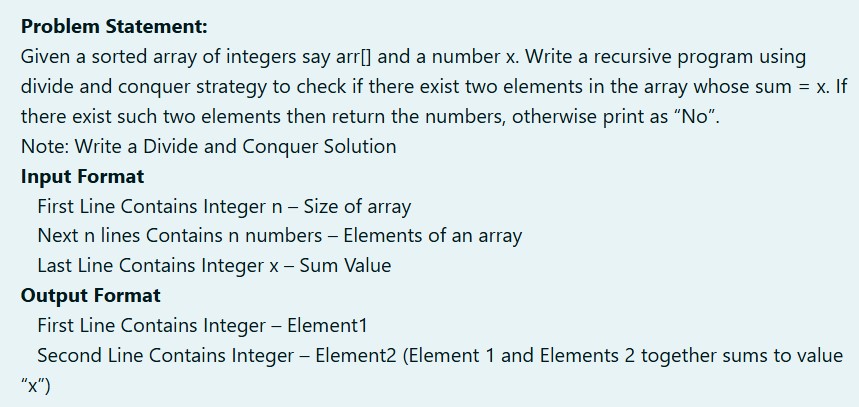
1. Finding floor value

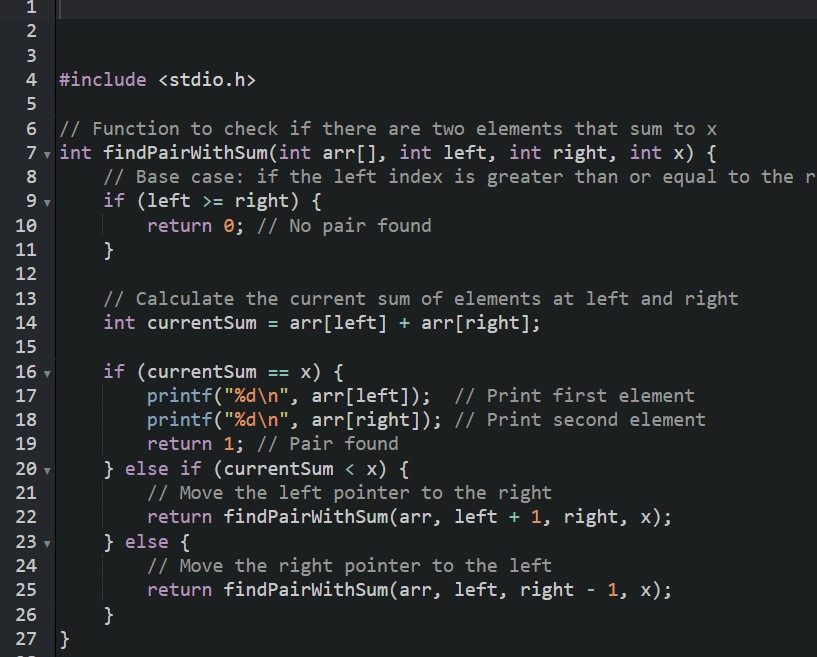


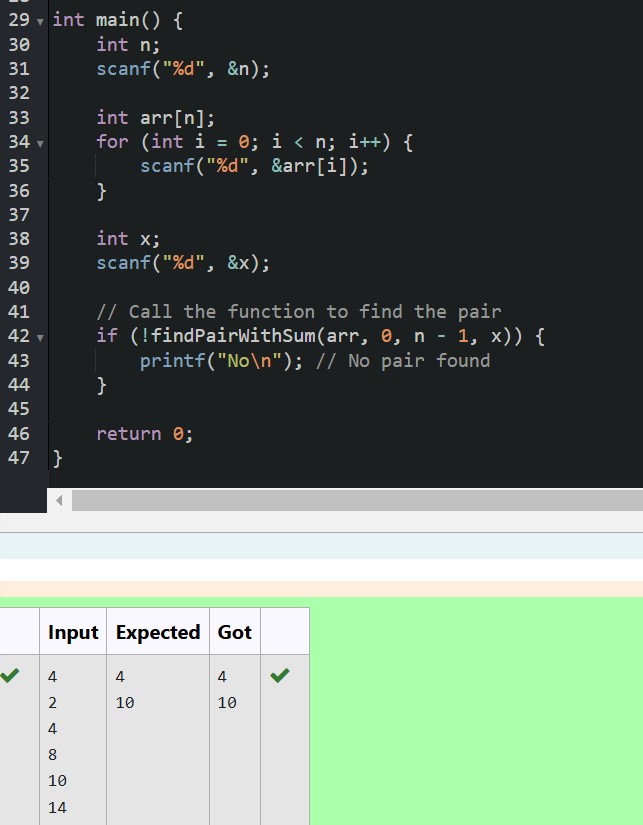


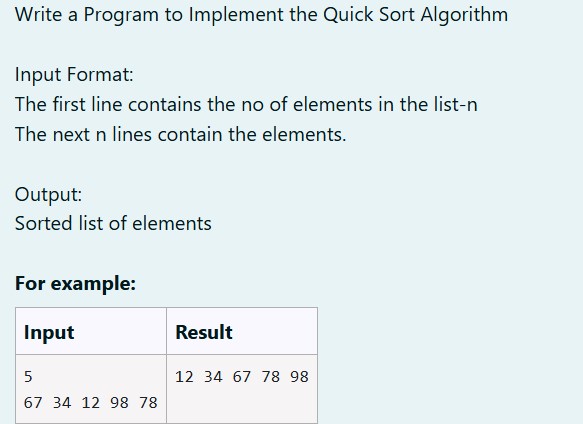


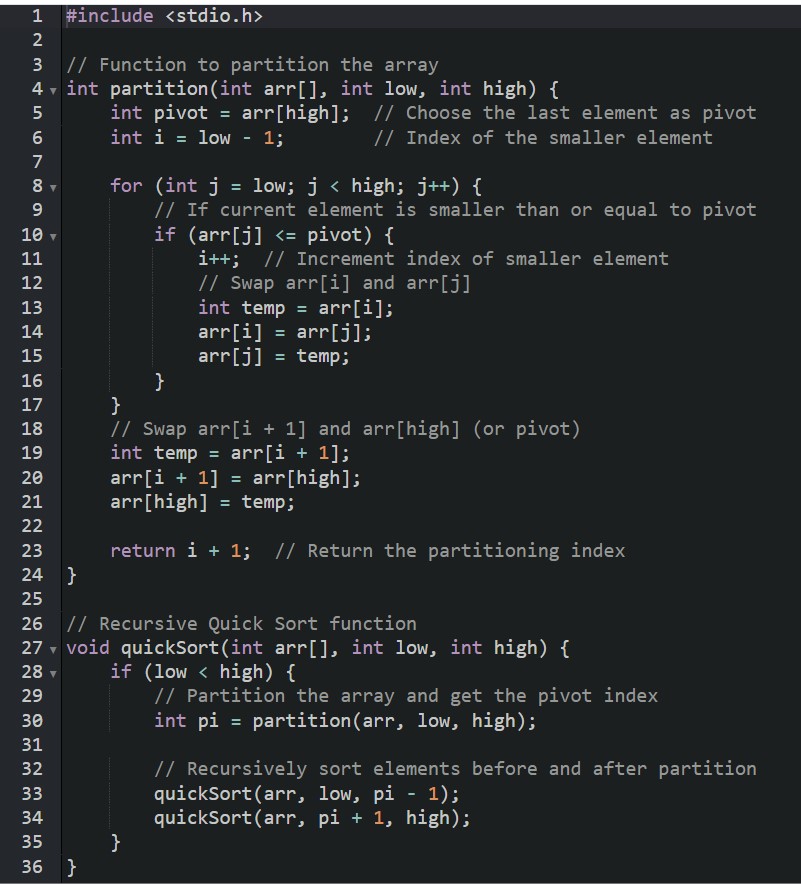
1. Two elements sum to x

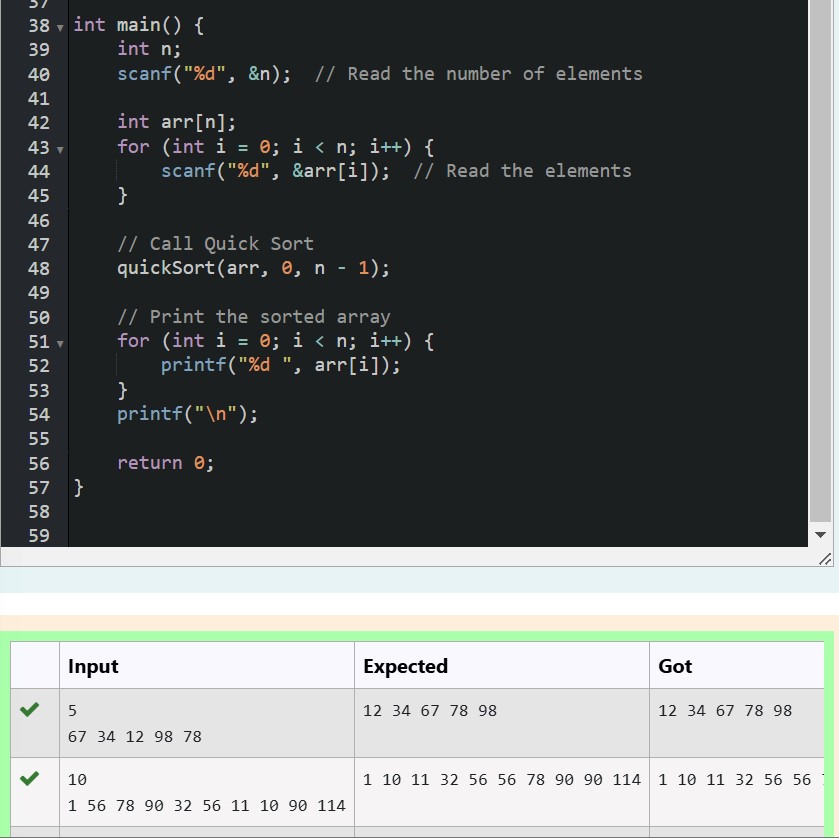




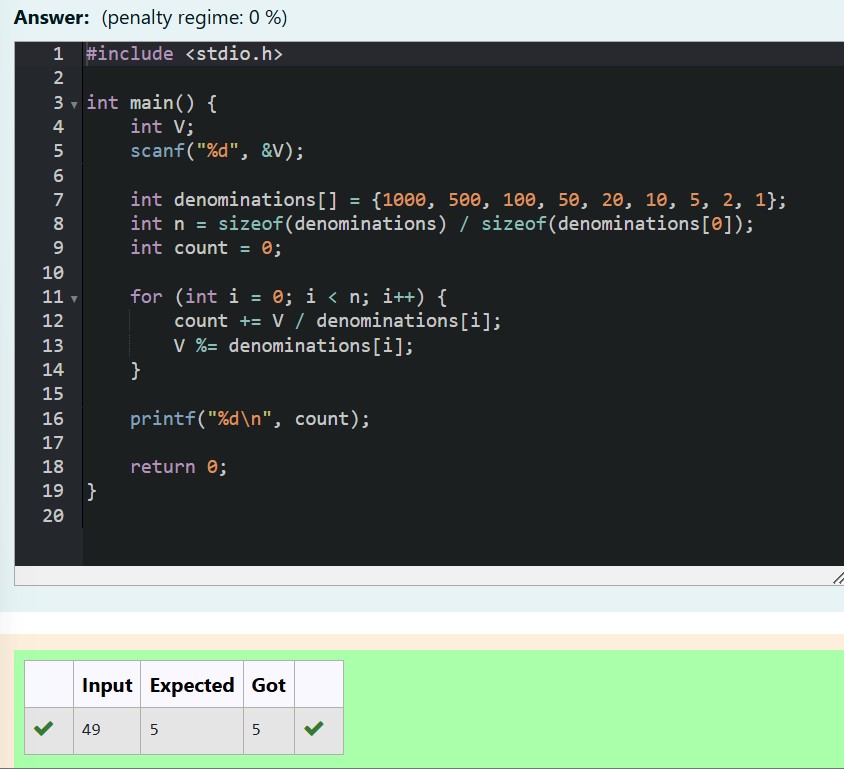


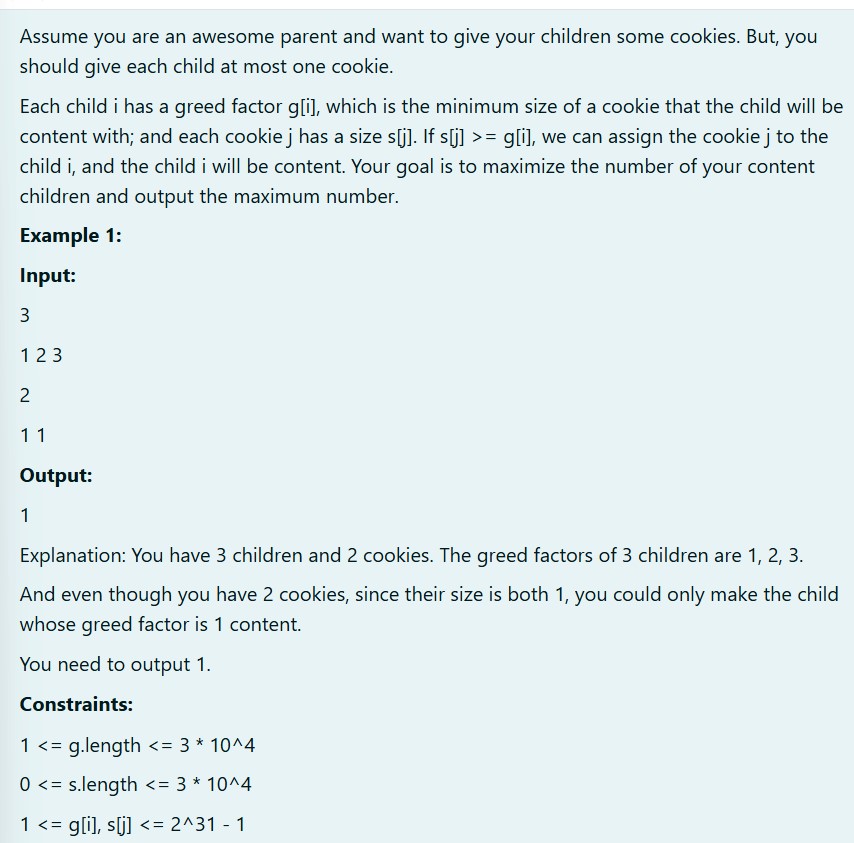




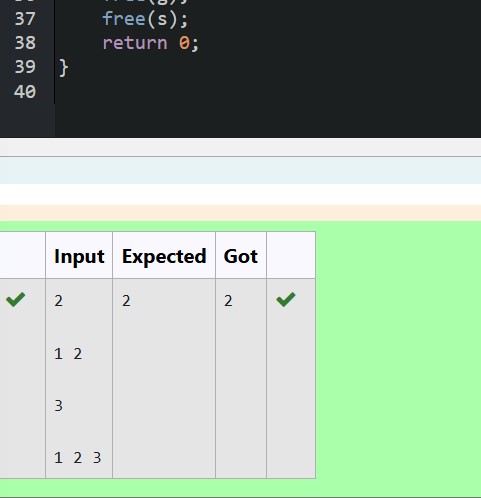




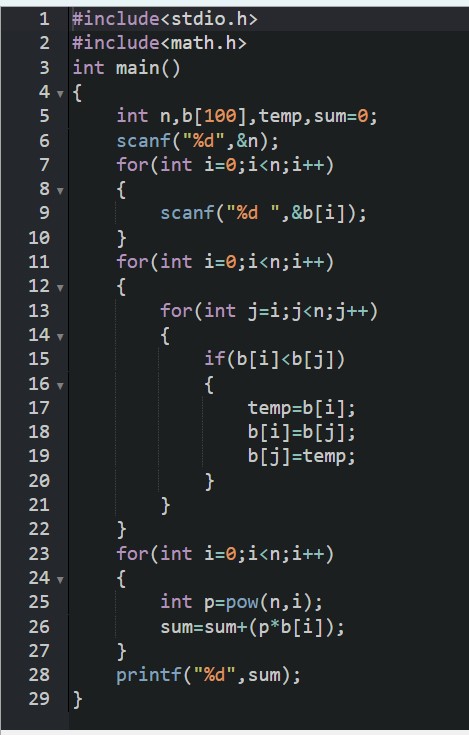






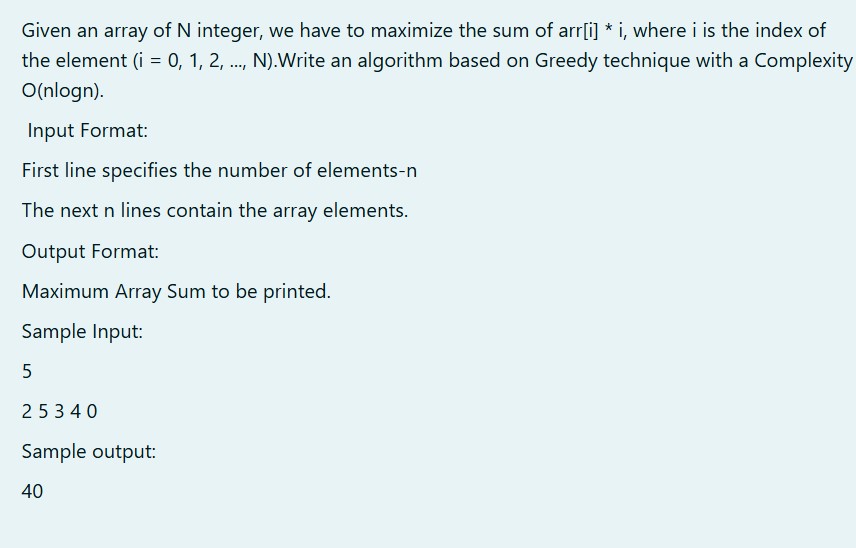


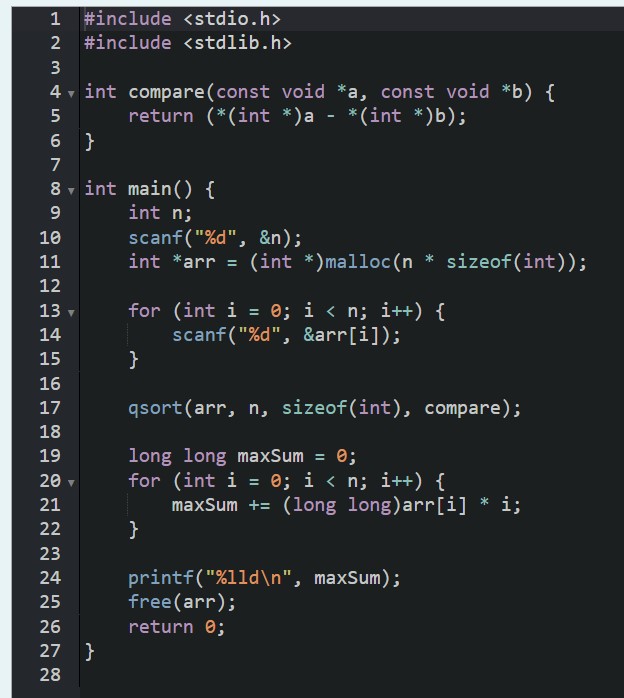


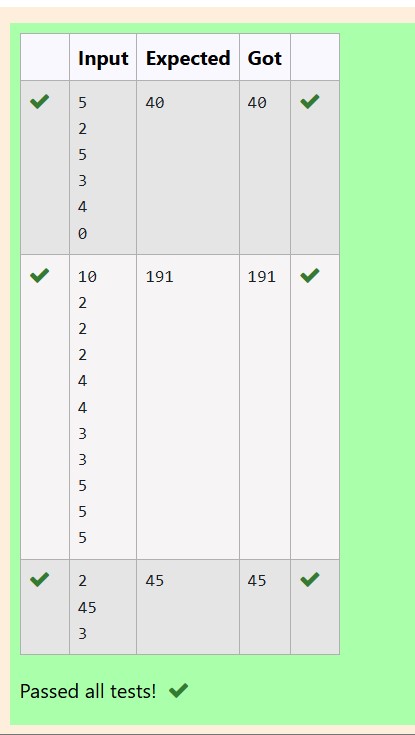




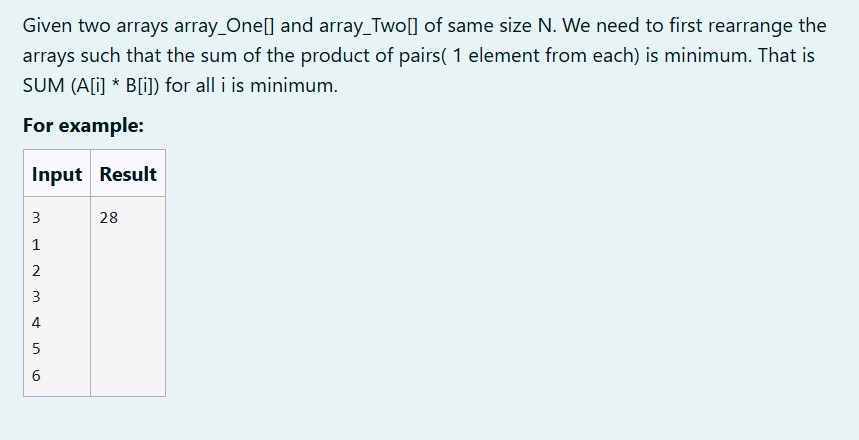
Array sum max problem

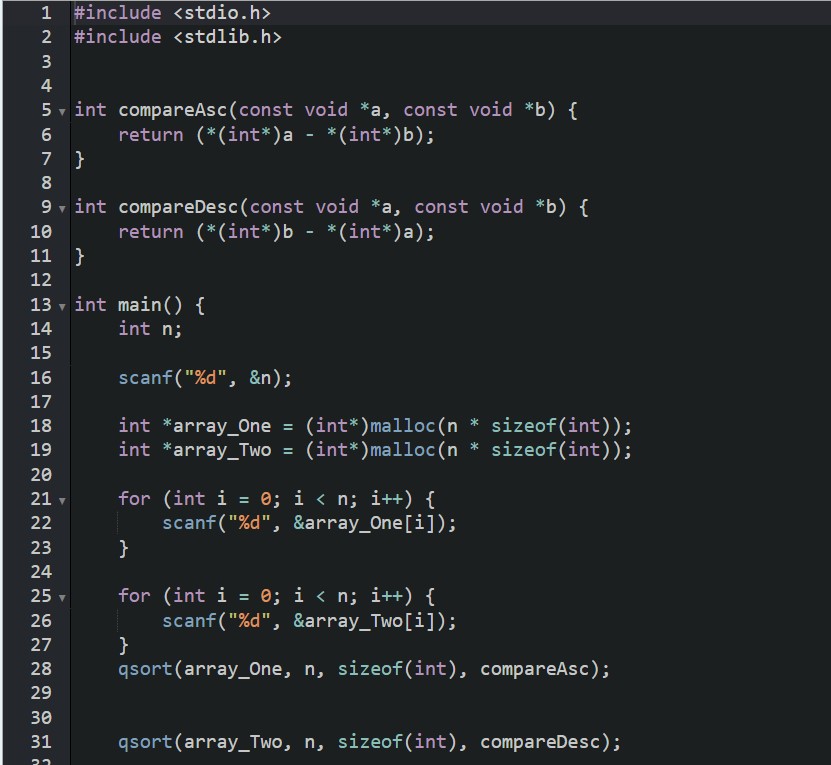


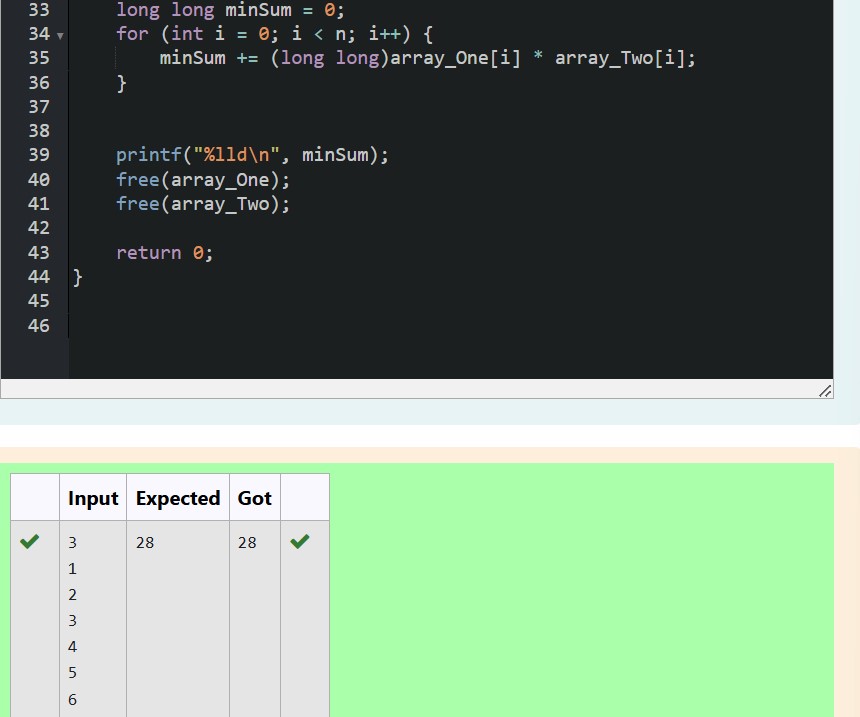




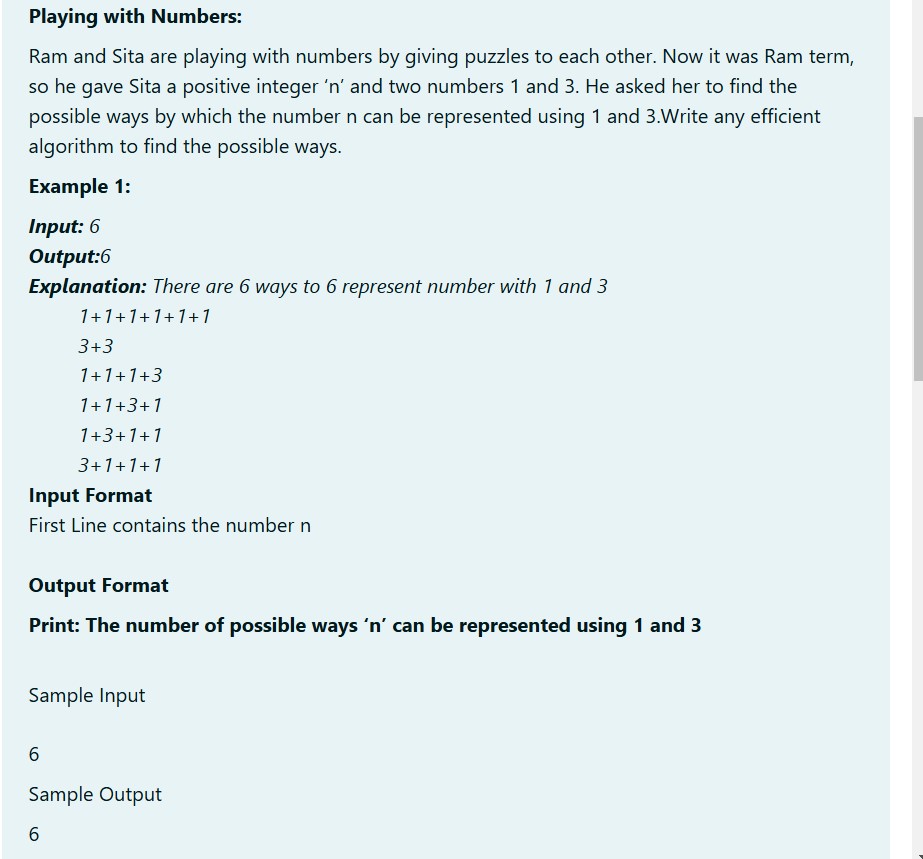
Product of array elements minimum

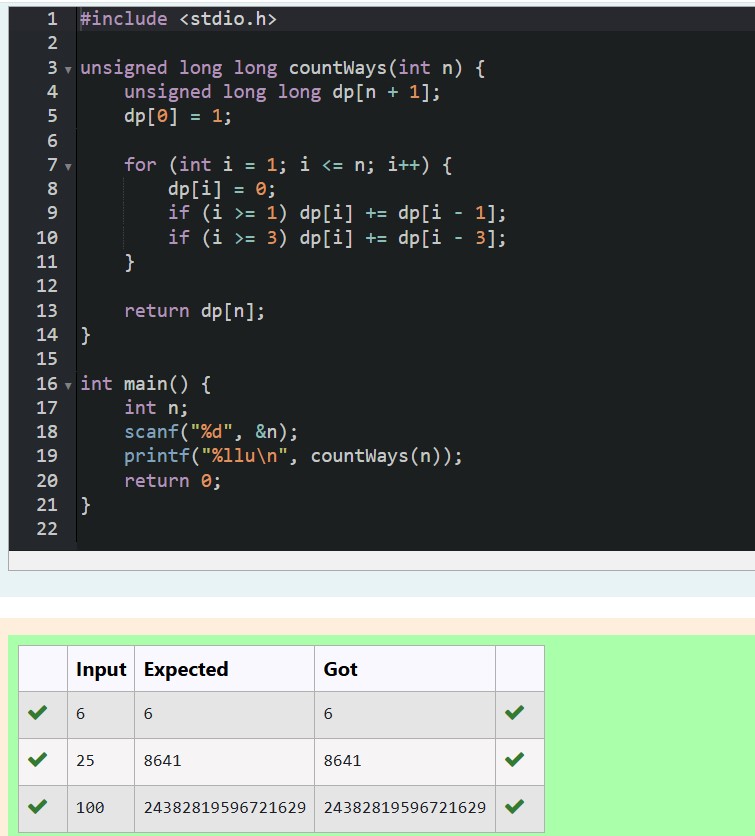


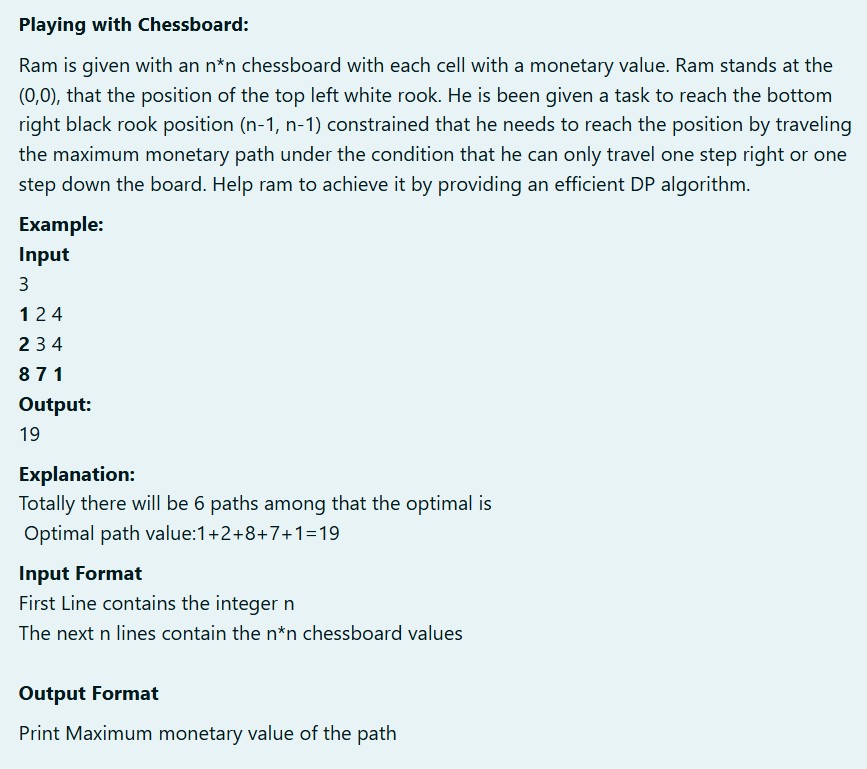


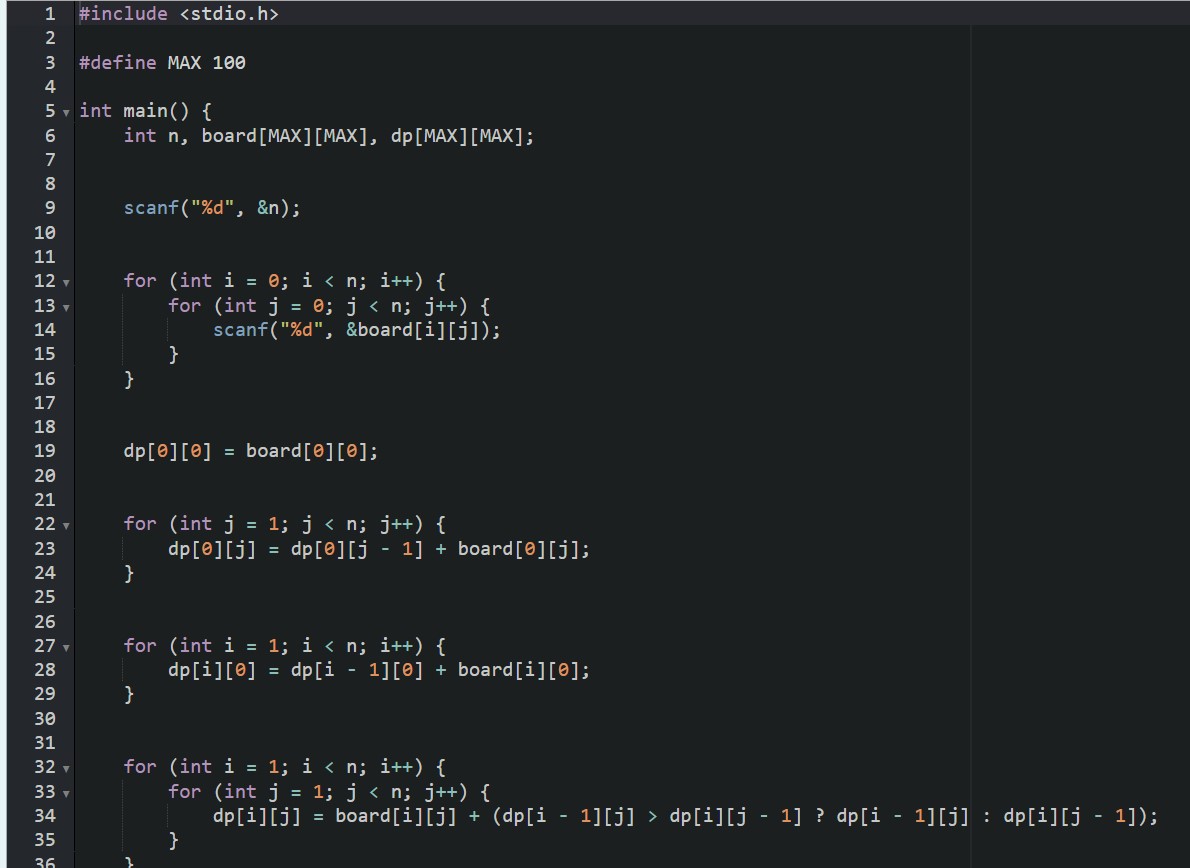


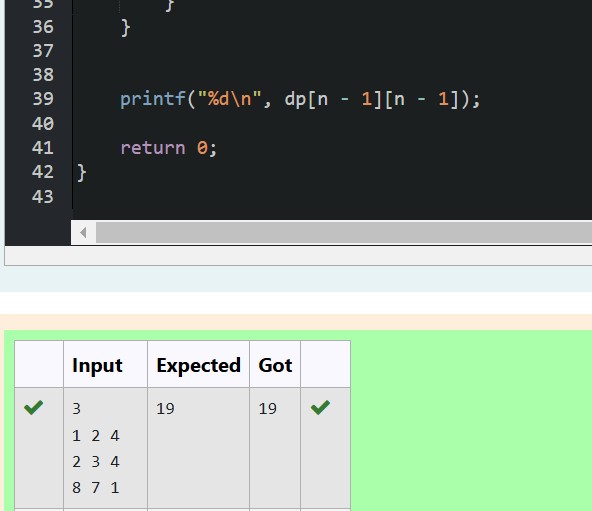
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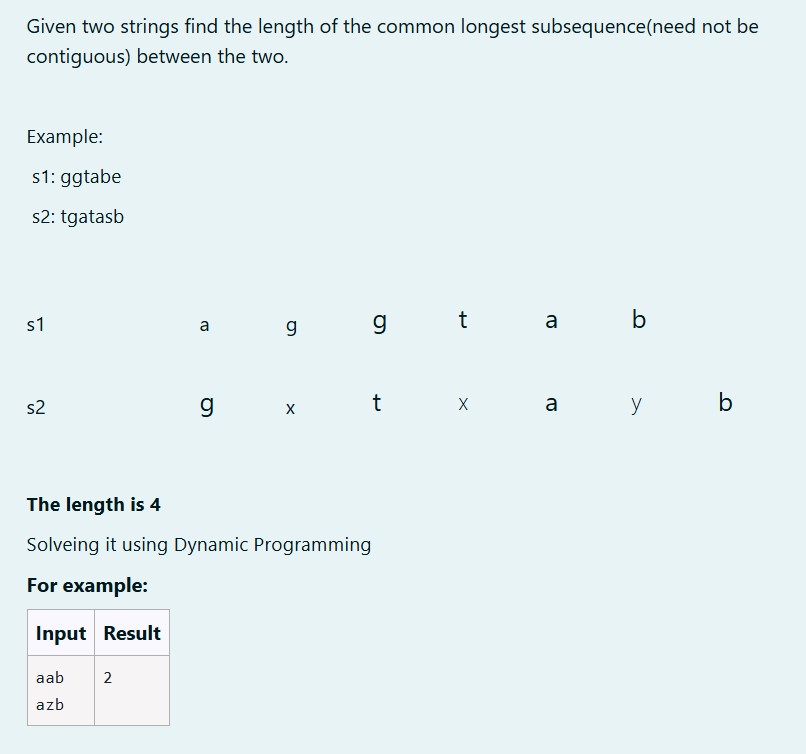


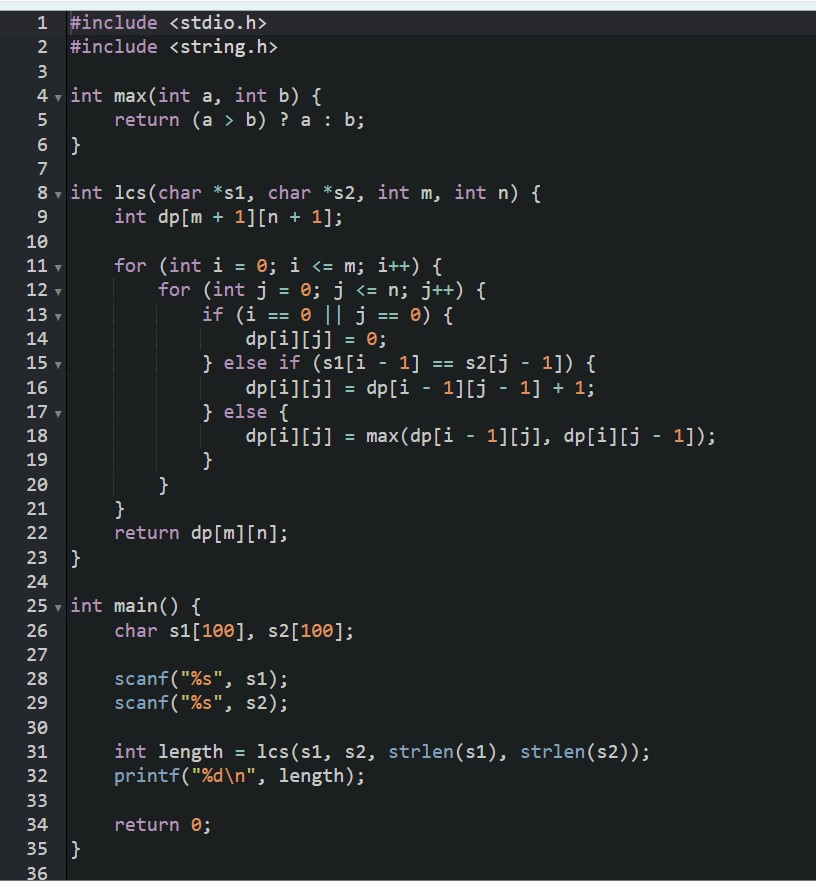


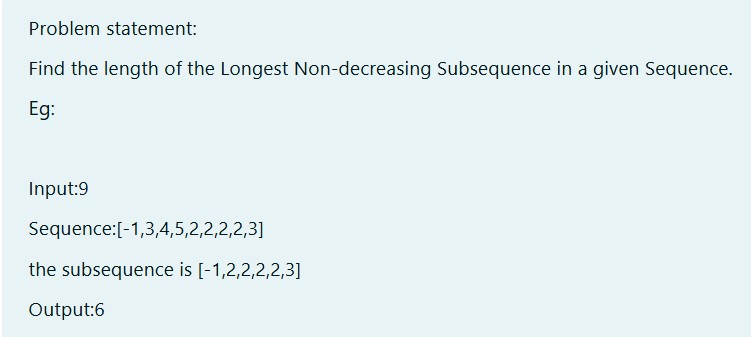


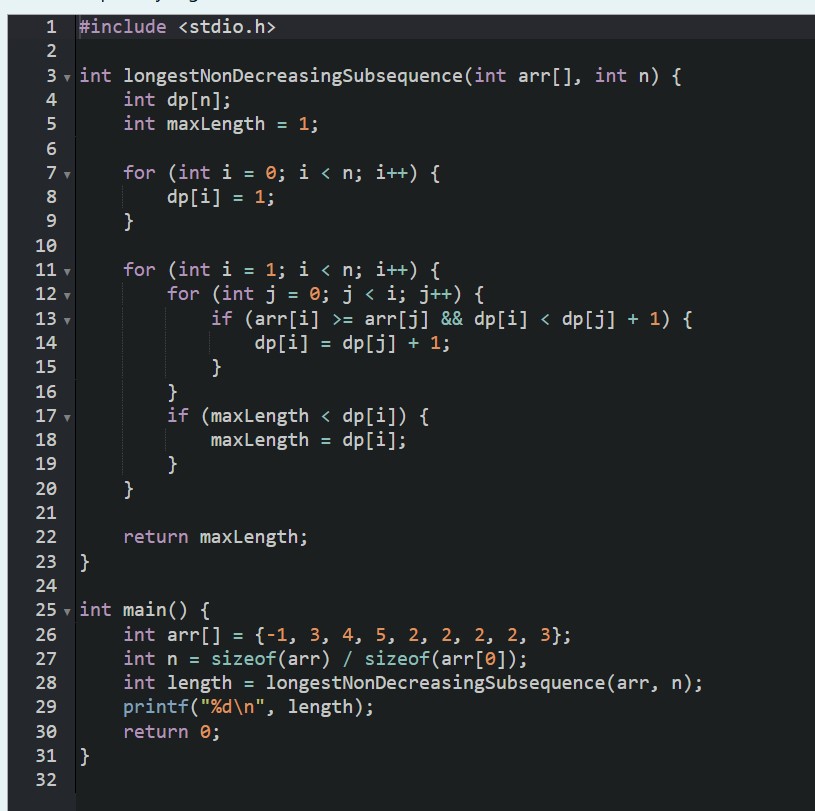


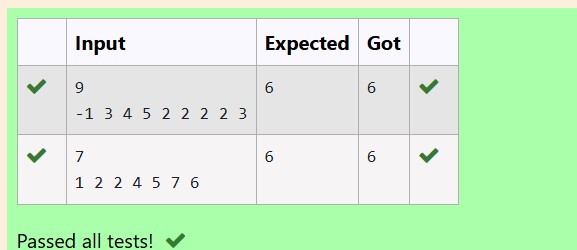
Longest common subsequence





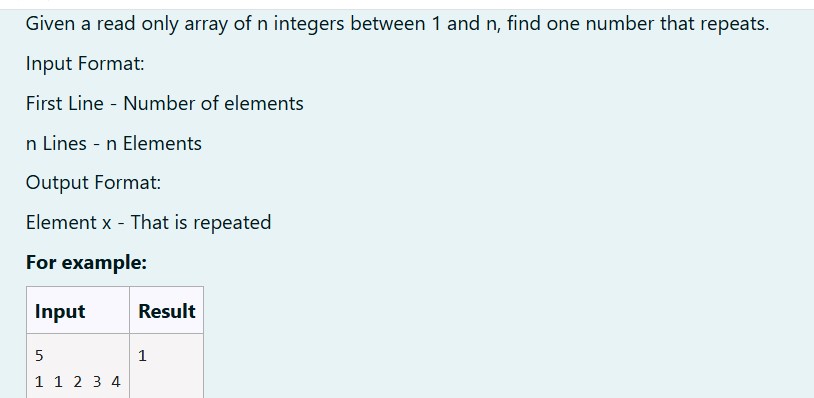


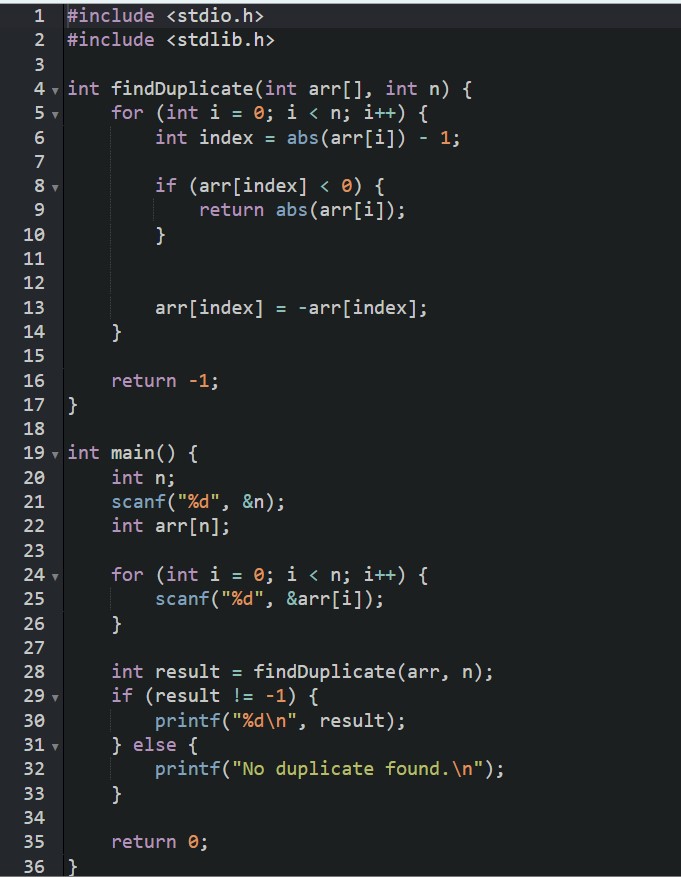


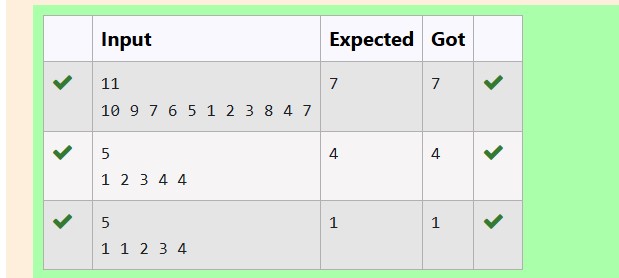


COMPETITIVE PROGRAMMING

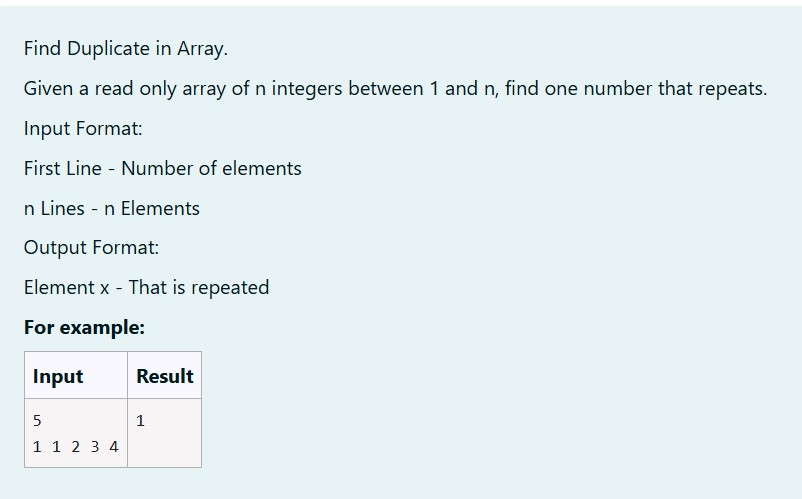
Complexity - O(n^n)

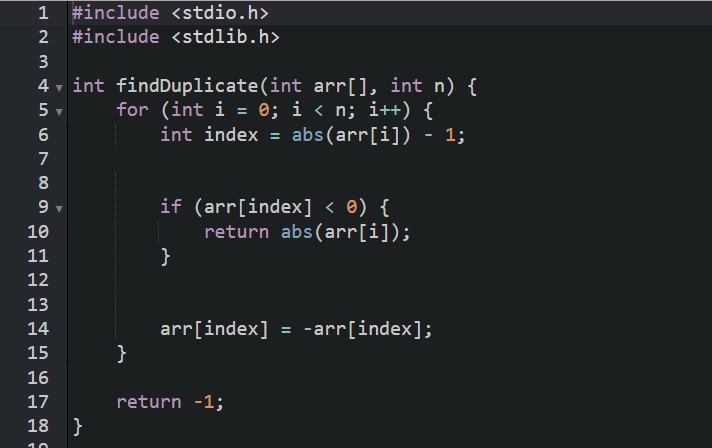


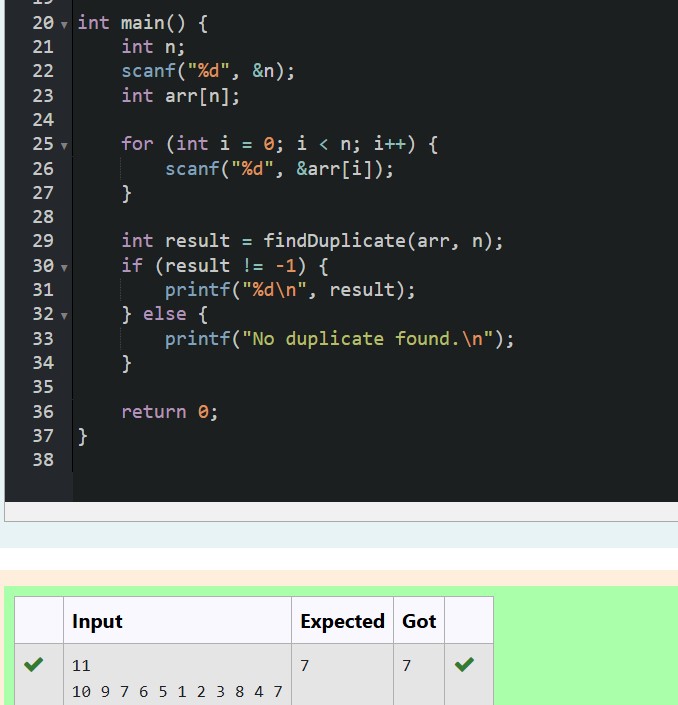




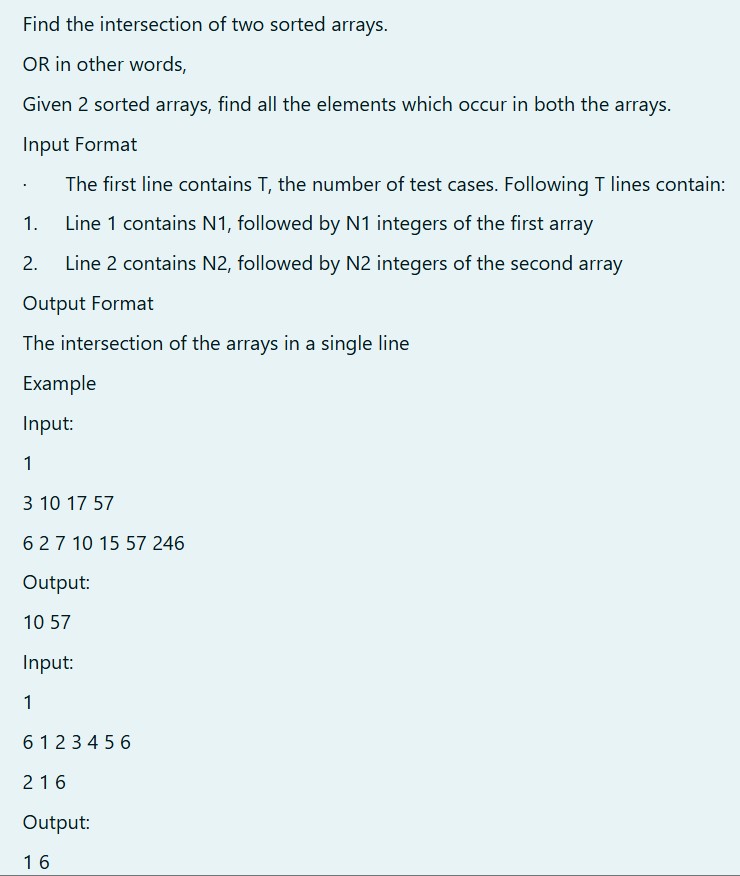
O(n) complexity

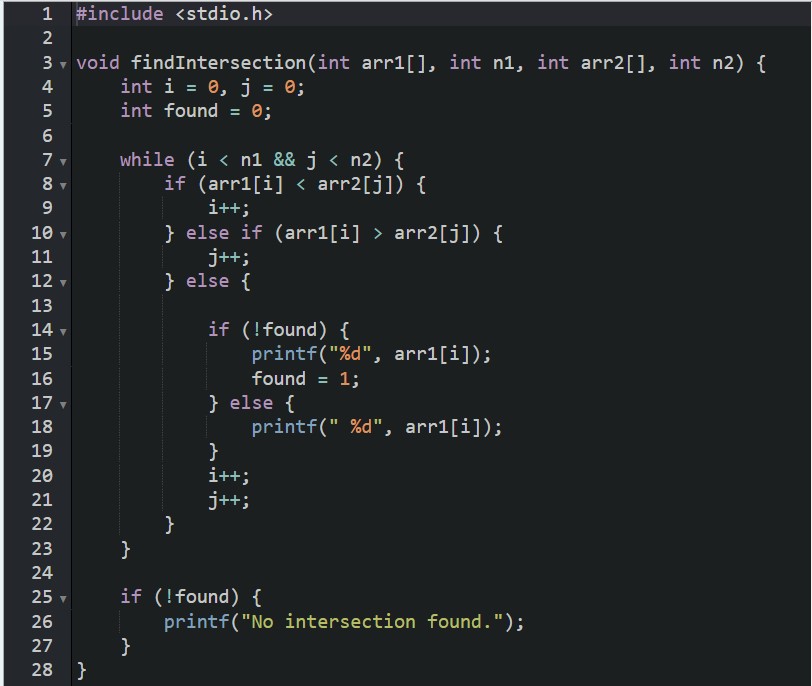






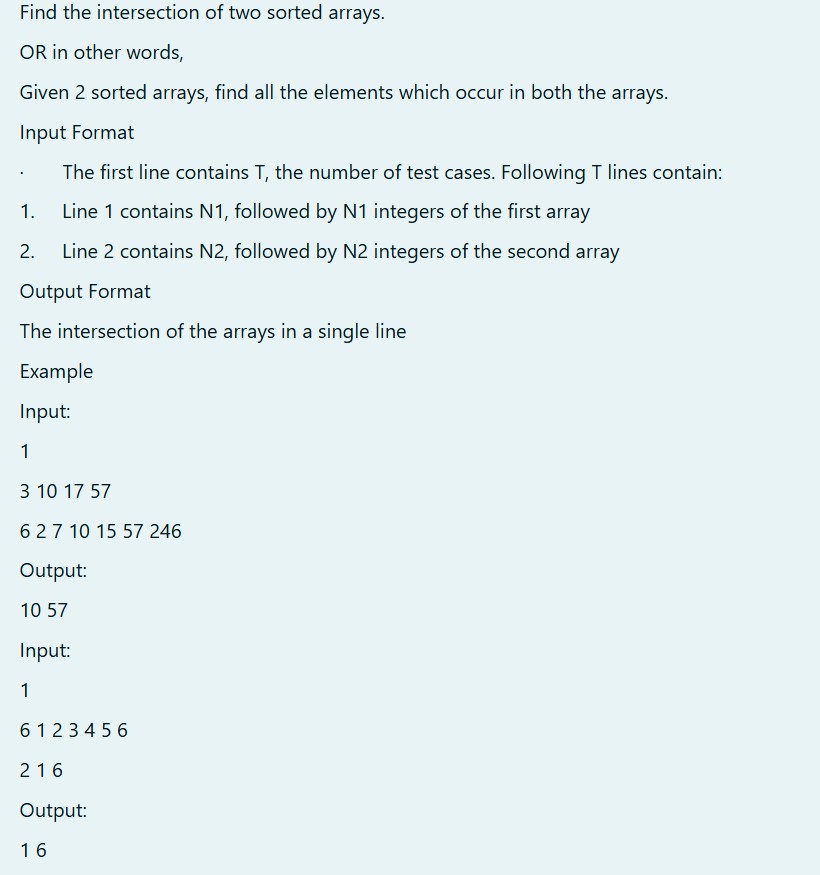
O(m\*n) complexity

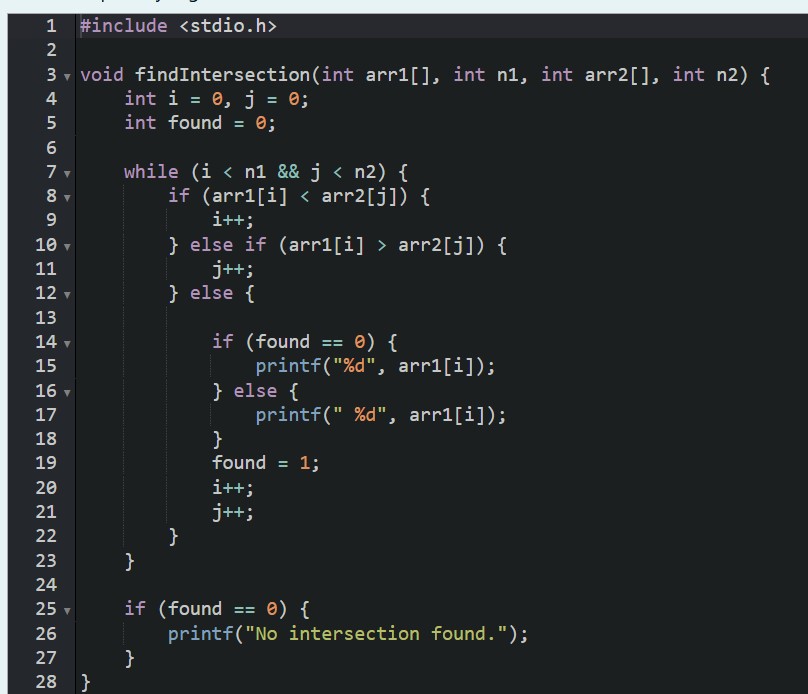


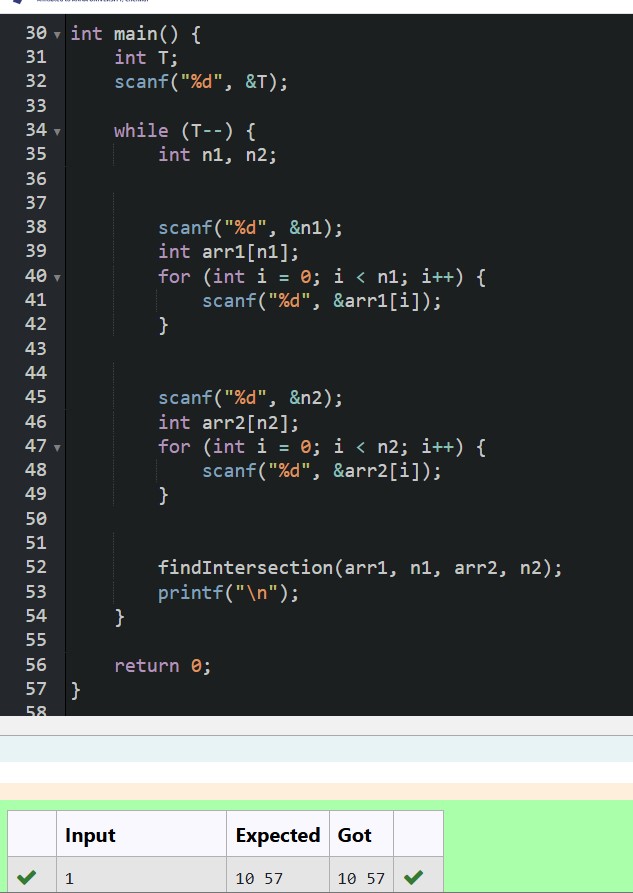




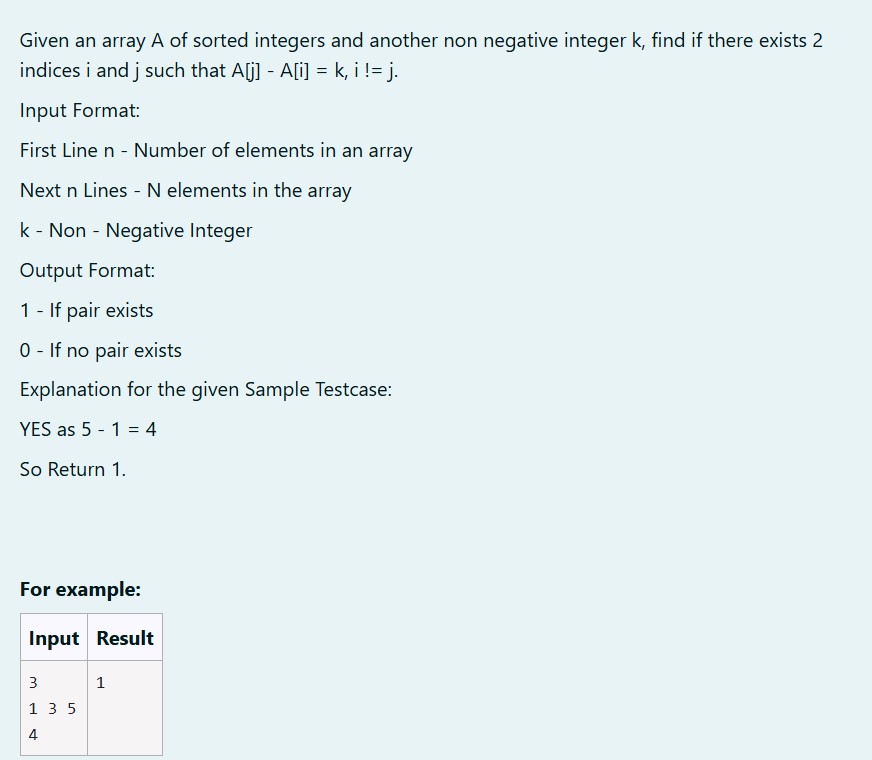
O(m+n) complexity



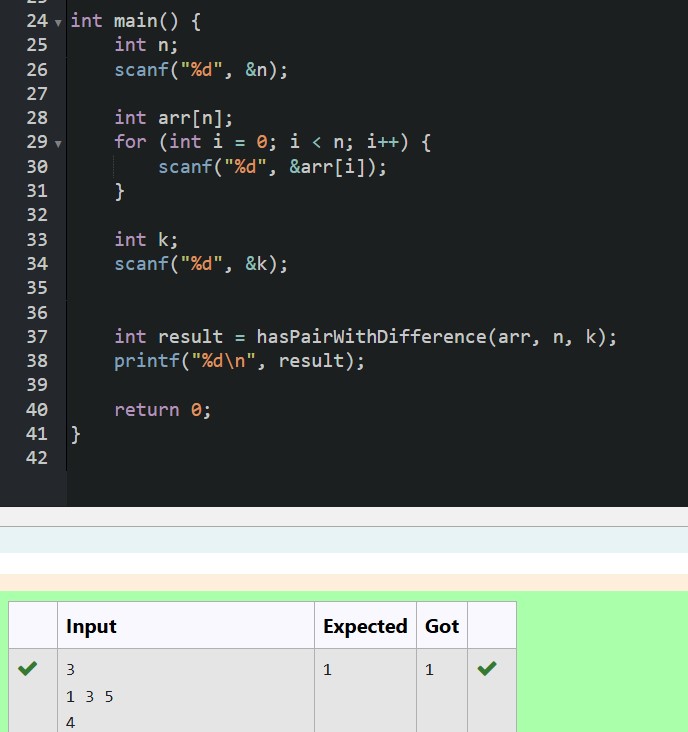




O(n^2) complexity







O(n) complexity



