RAJALAKSHMI ENGINEERING

COLLEGE

RAJALAKSHMI NAGAR, THANDALAM - 602 105

# RAJALAKSHMI

## ENGINEERING COLLEGE

An AUTONOMOUS Institution

### Affiliated to ANNA UNIVERSITY, Chennai

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| CS23331 DESIGN AND ANALYSIS OF ALGORITHM |
| Laboratory Record Notebook |

**Name : G MADHUMITHA**

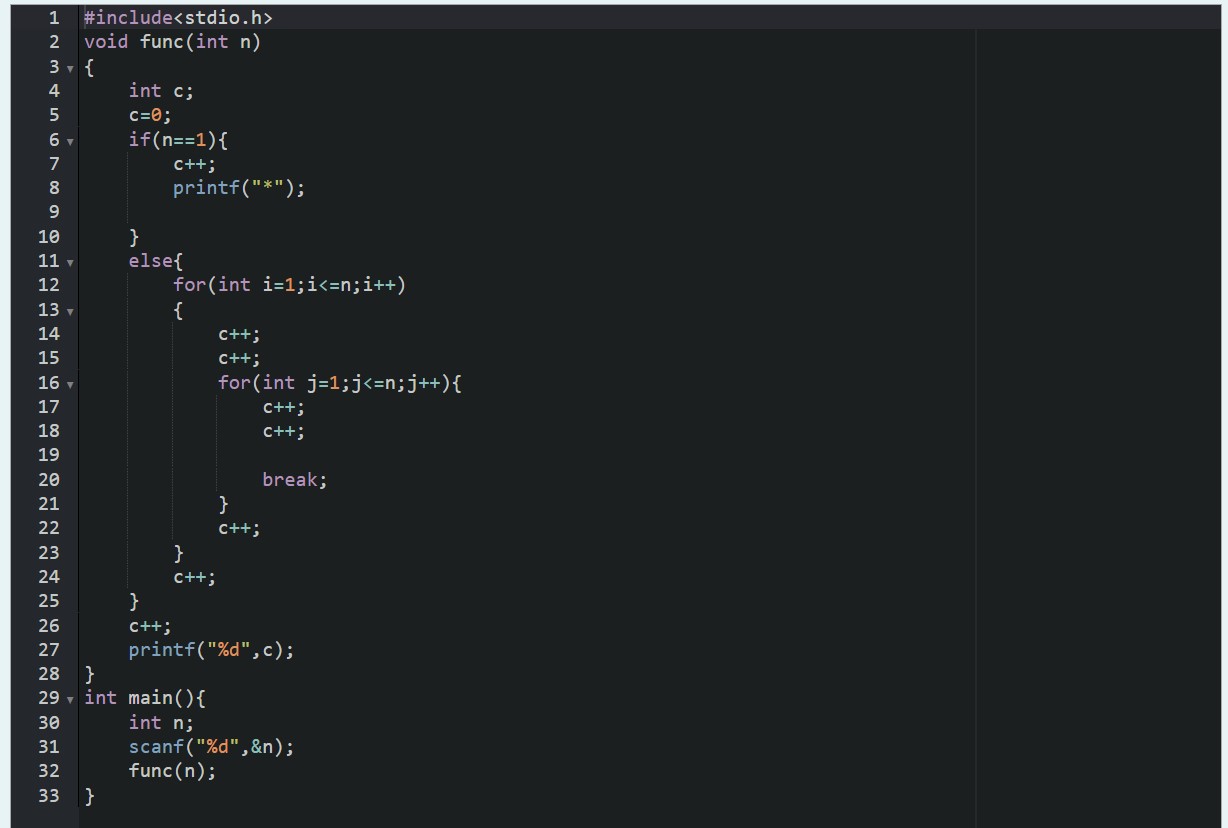
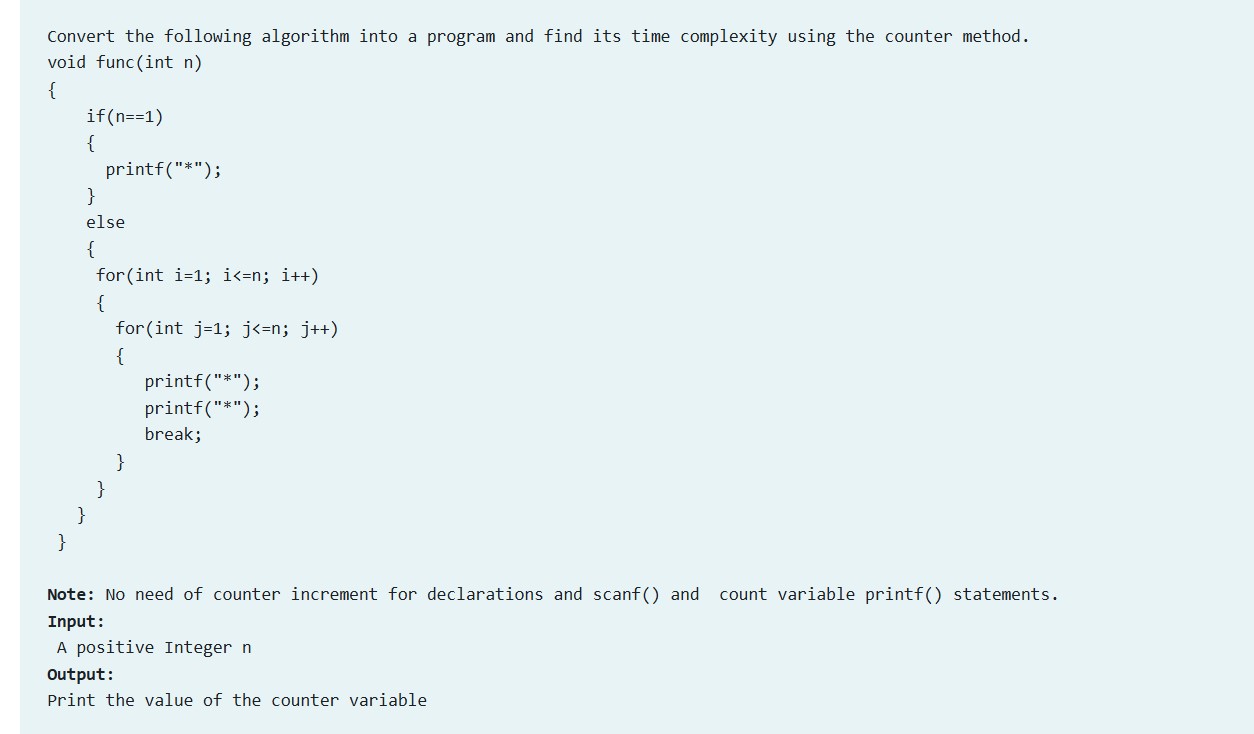
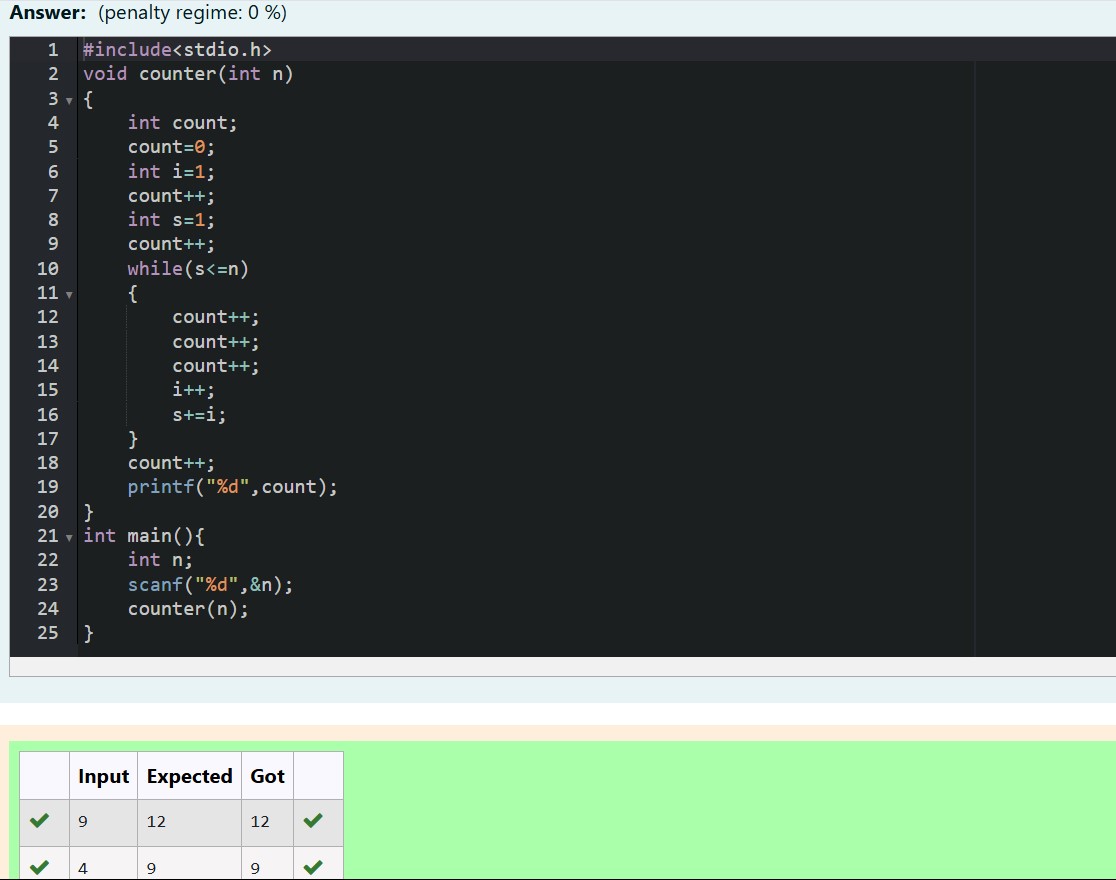
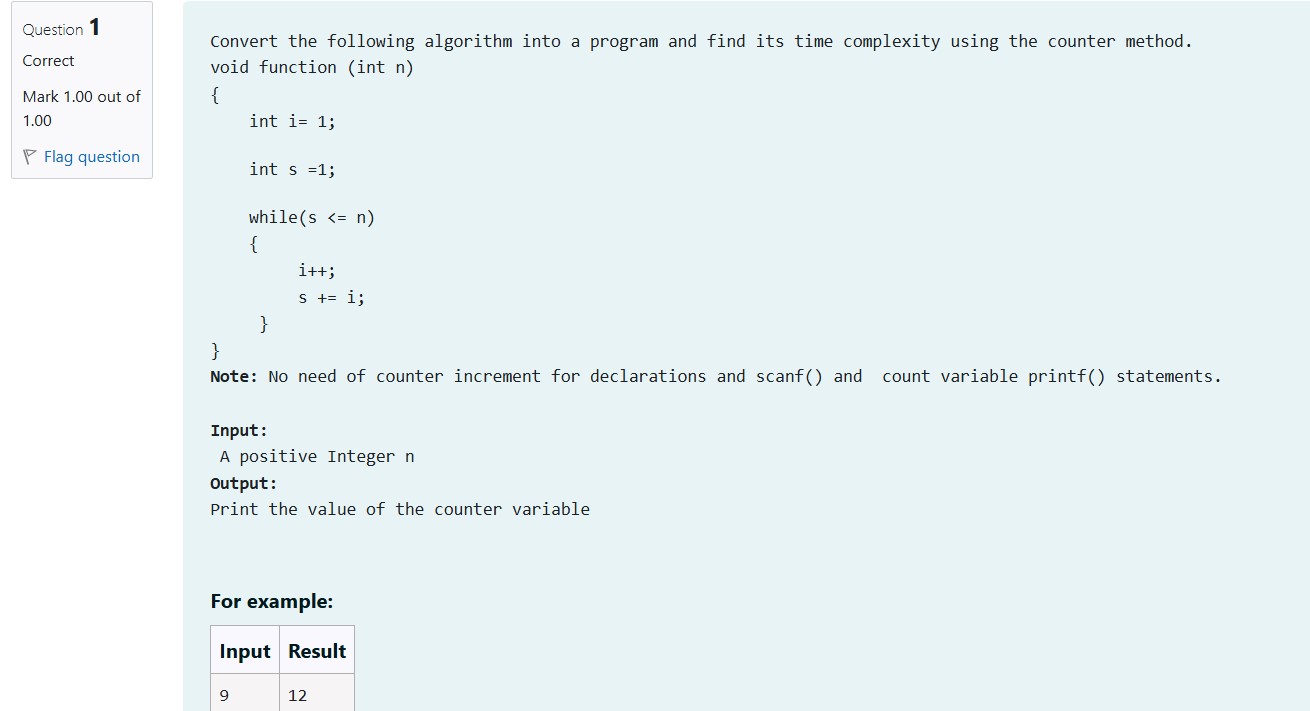
**Year / Branch / Section : II / AIML / B**

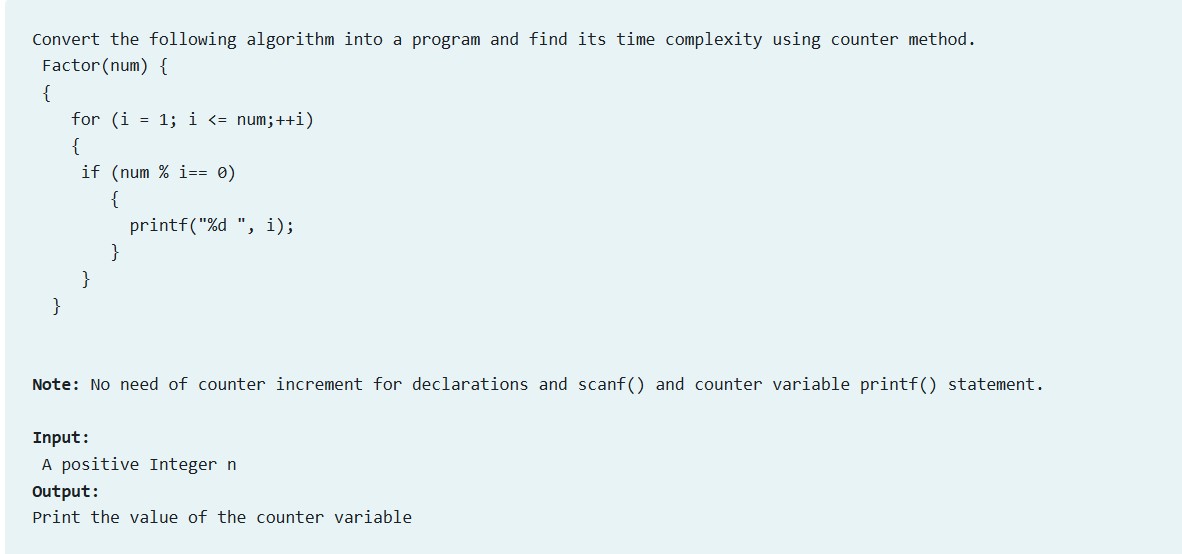
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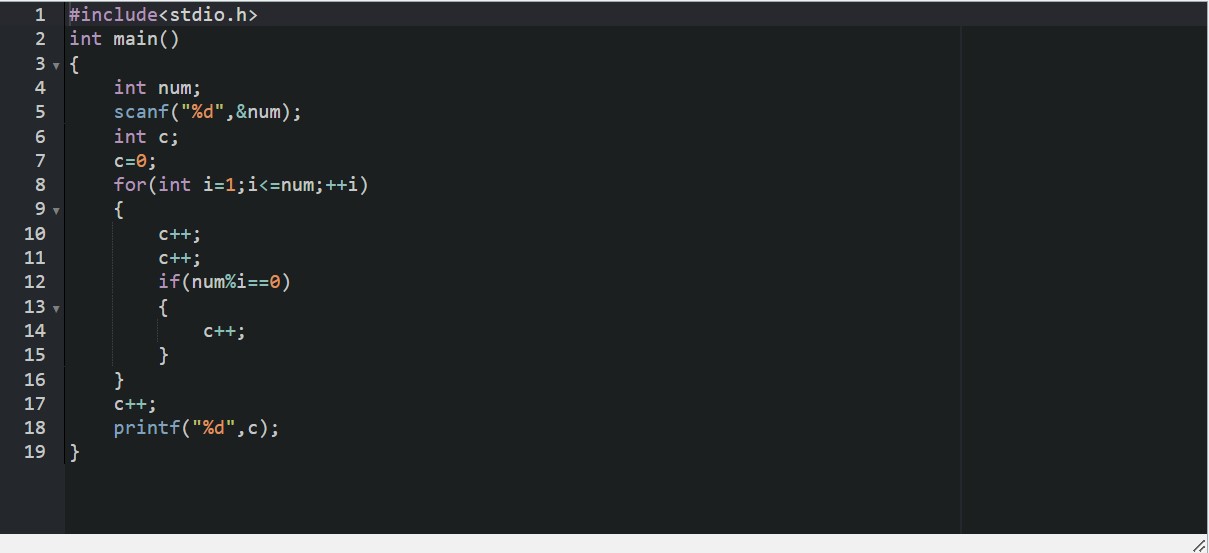
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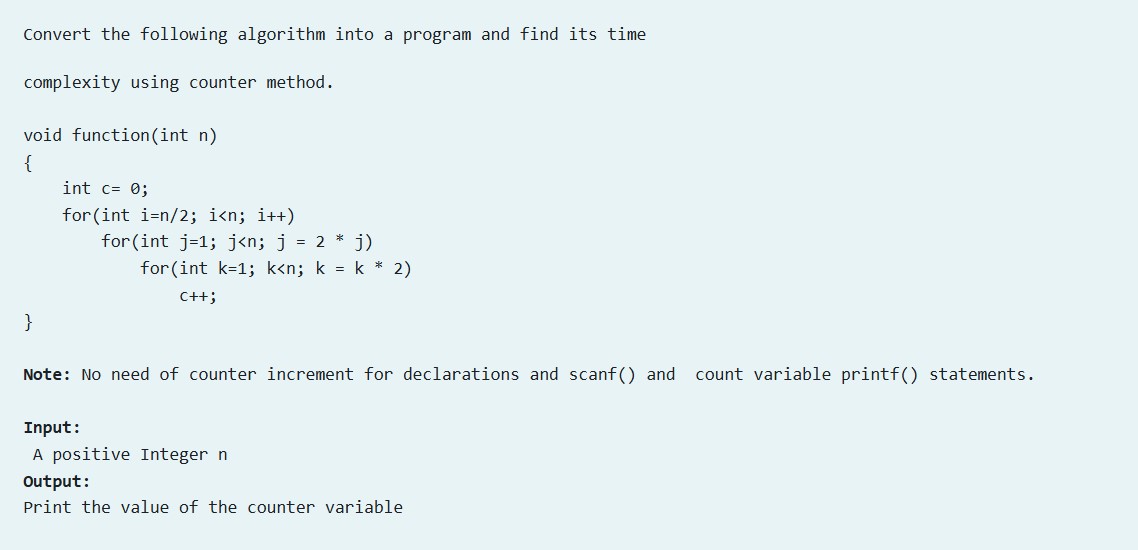
**Semester : 3rd SEMESTER**

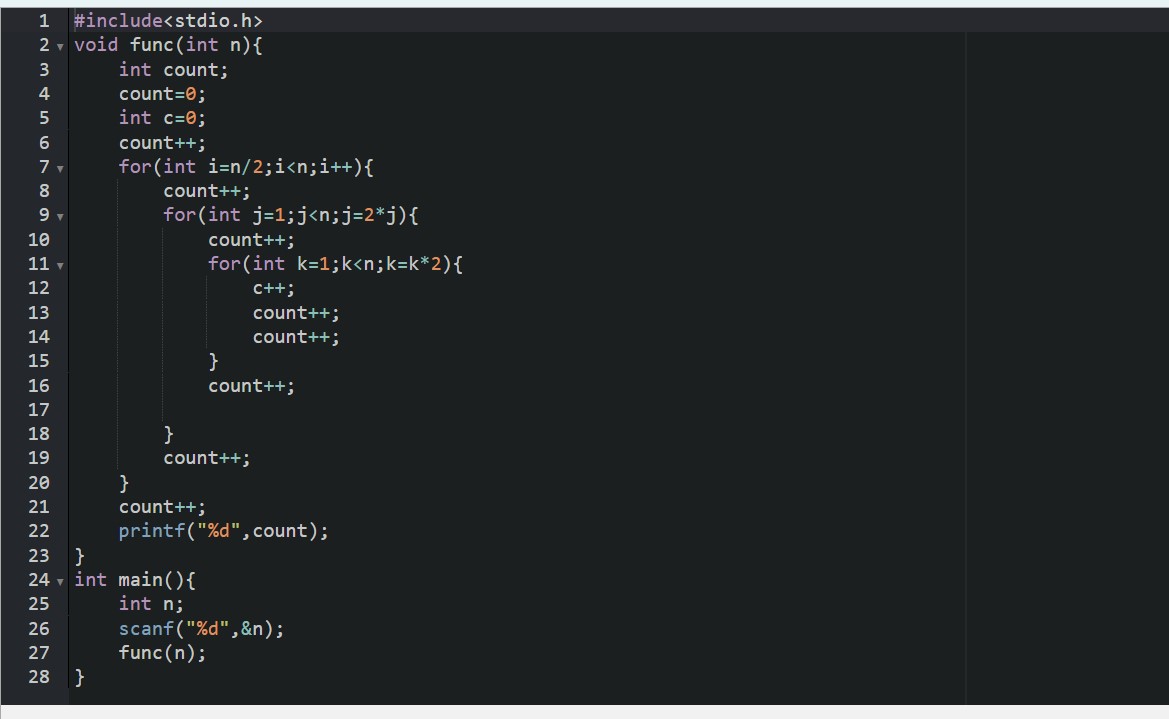
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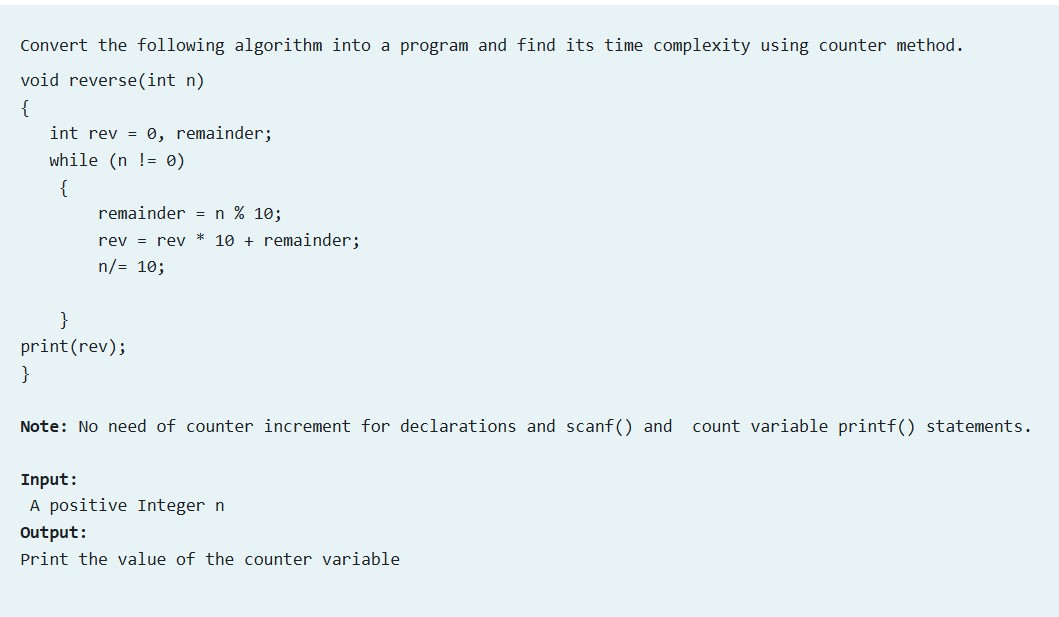








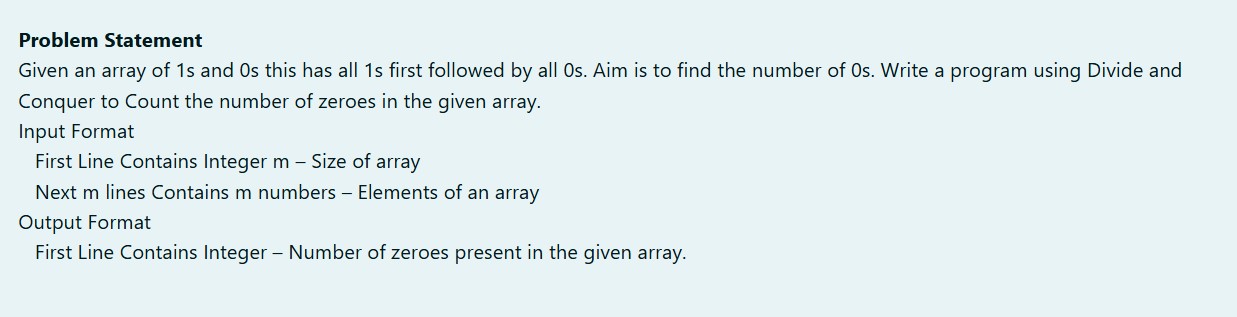


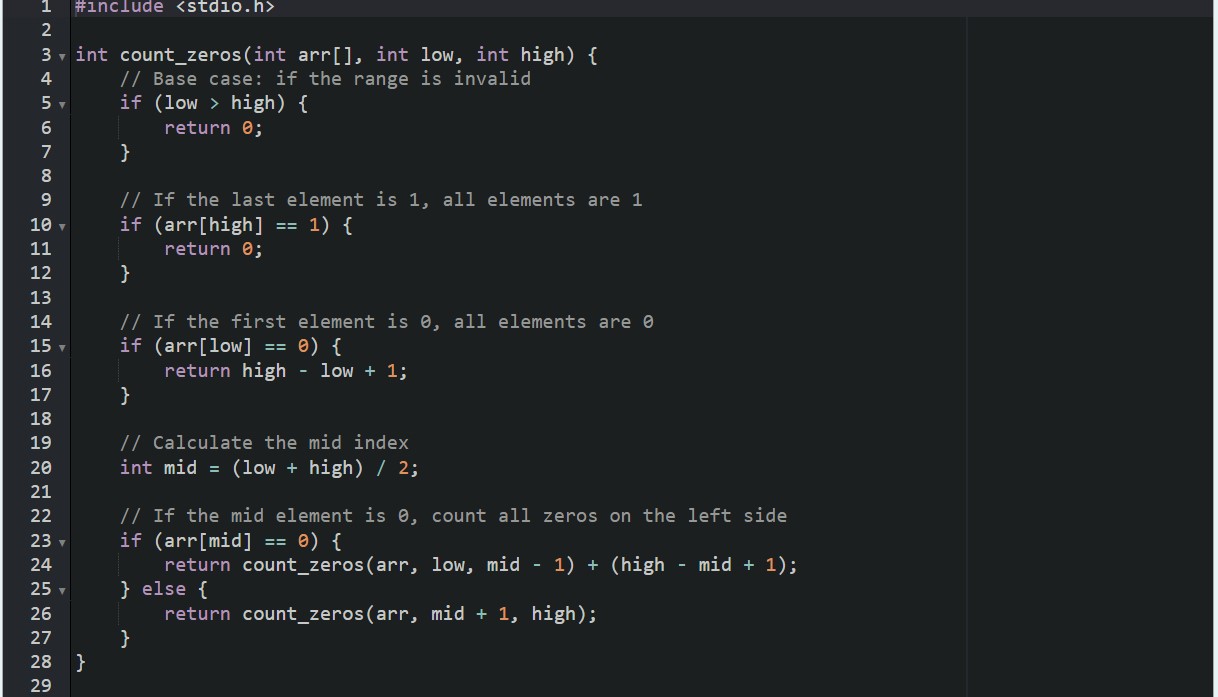


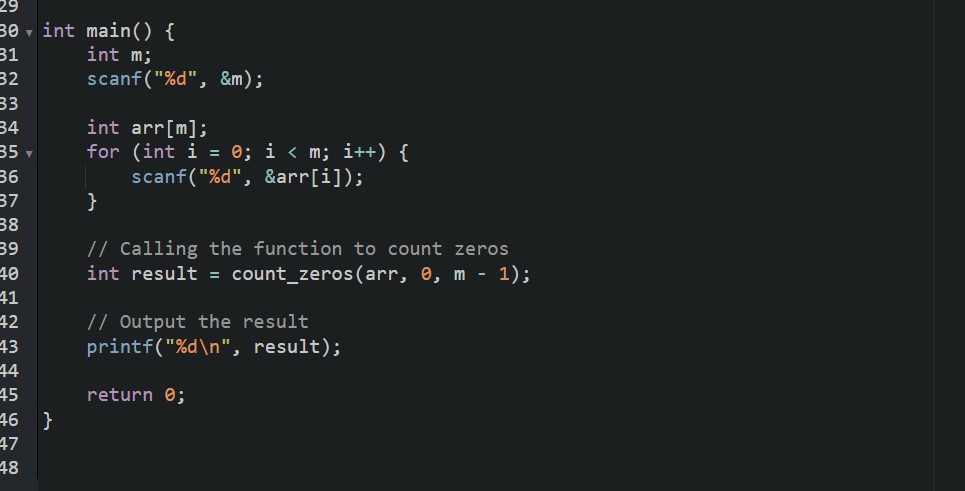


Divide and conquer

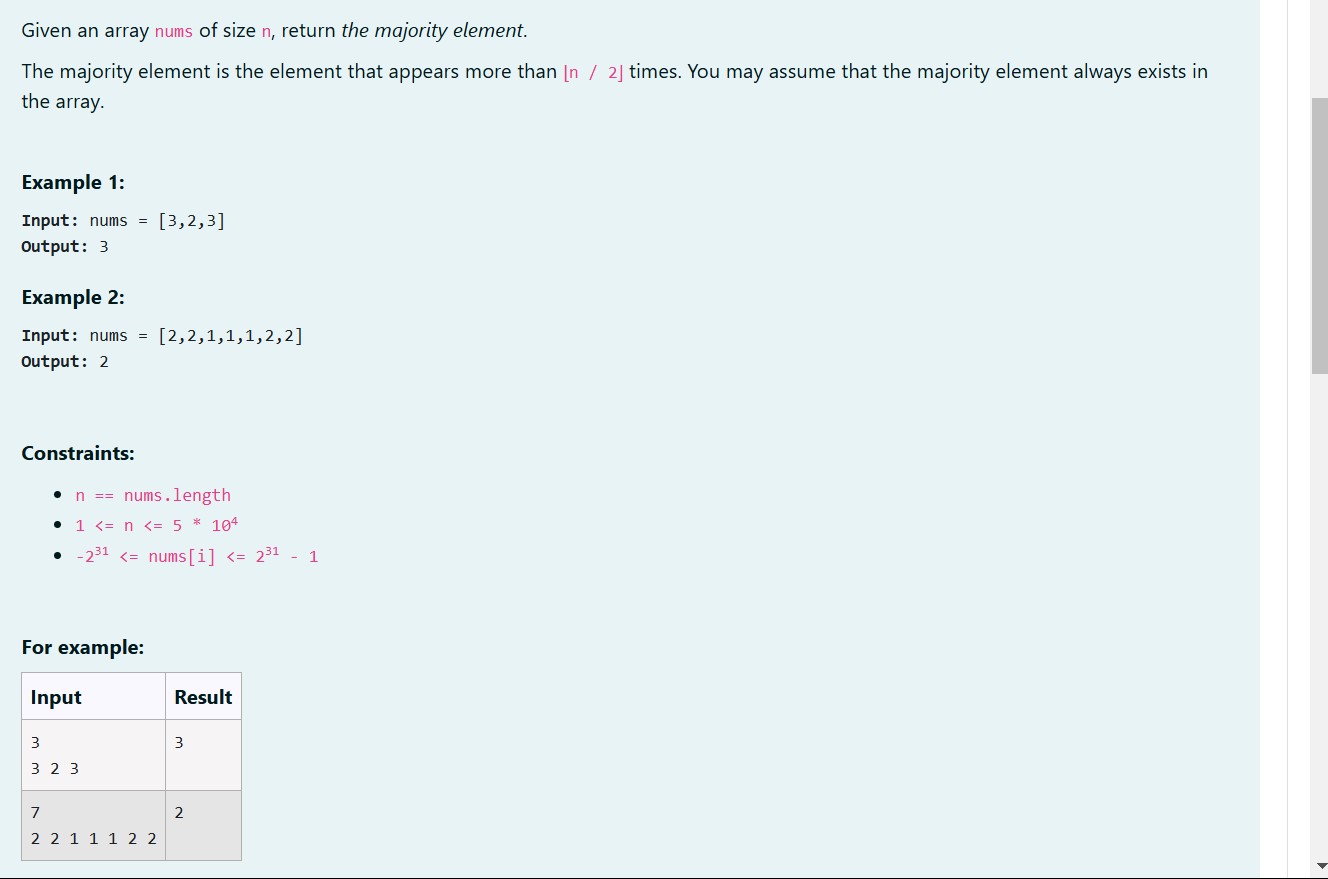
1. Number of zeros in given array

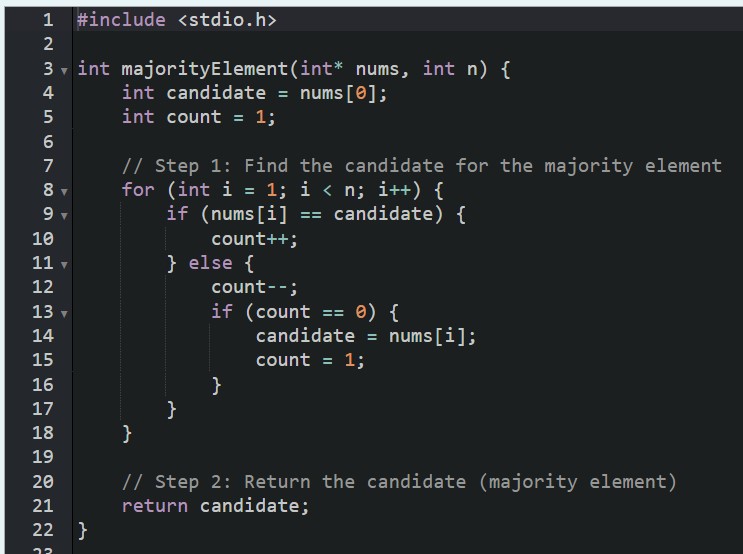


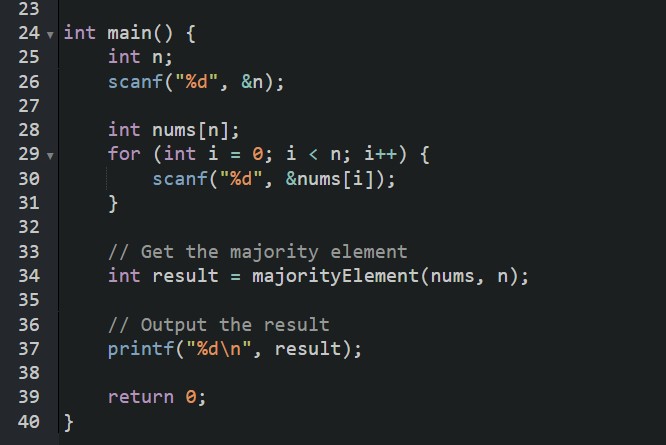




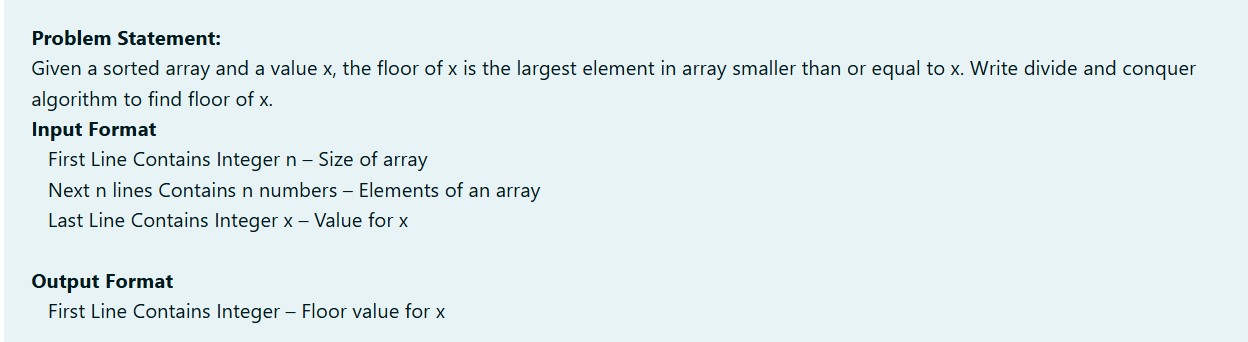
1. Majority element

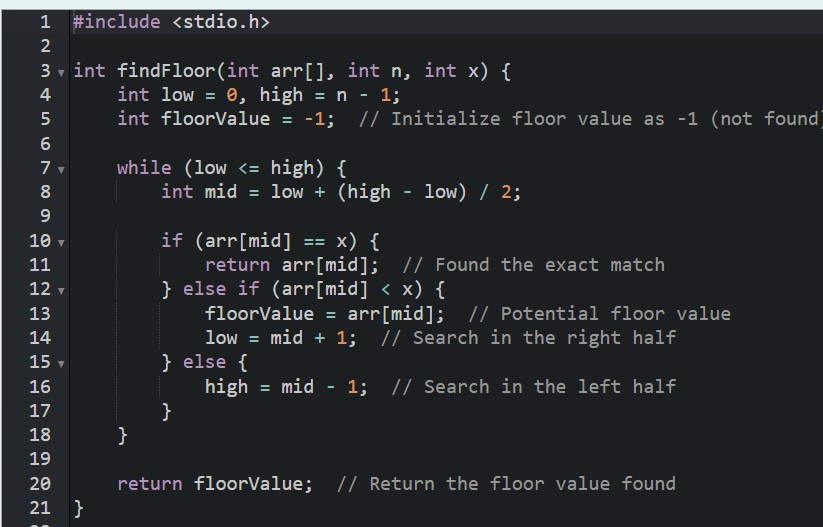


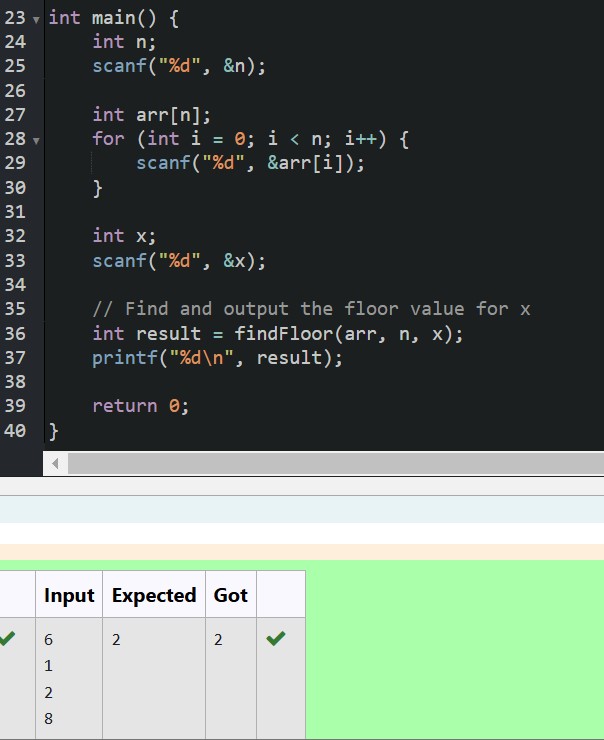




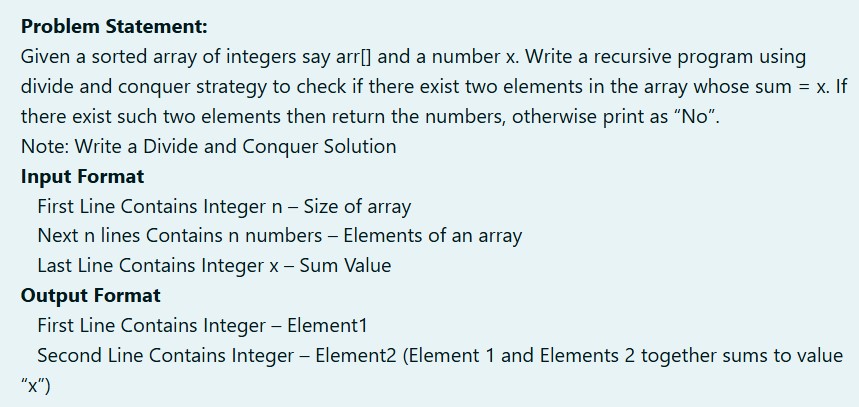
1. Finding floor value

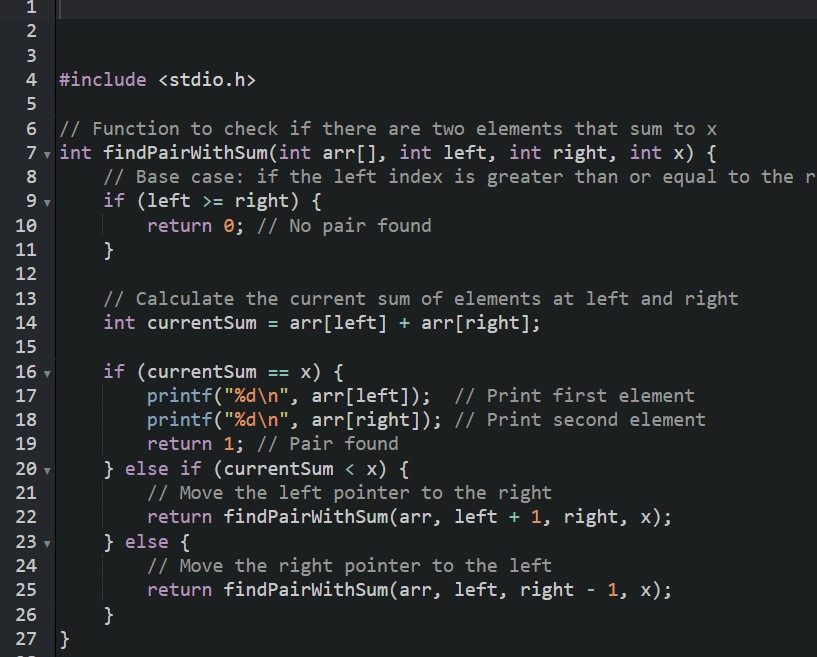


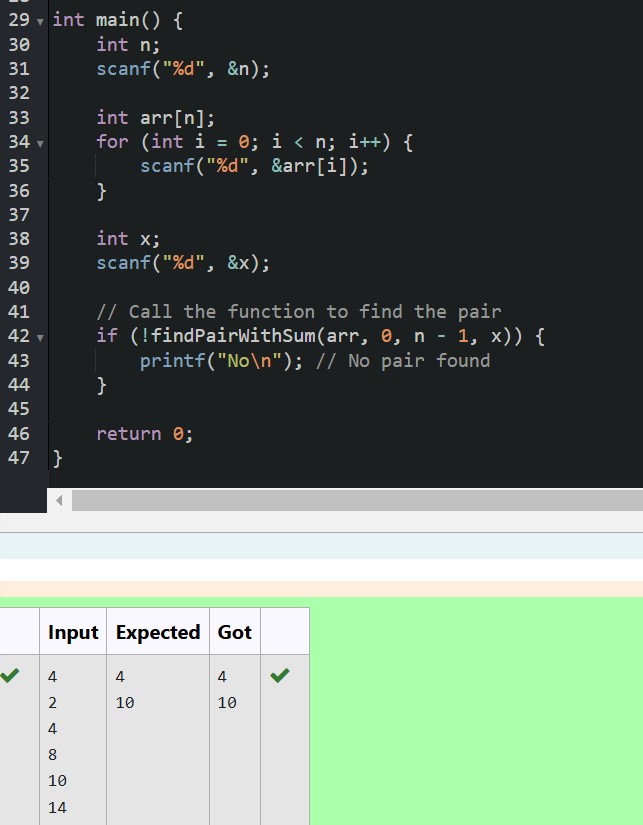


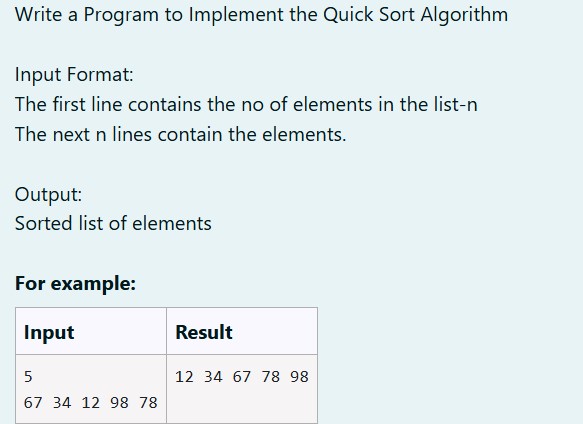


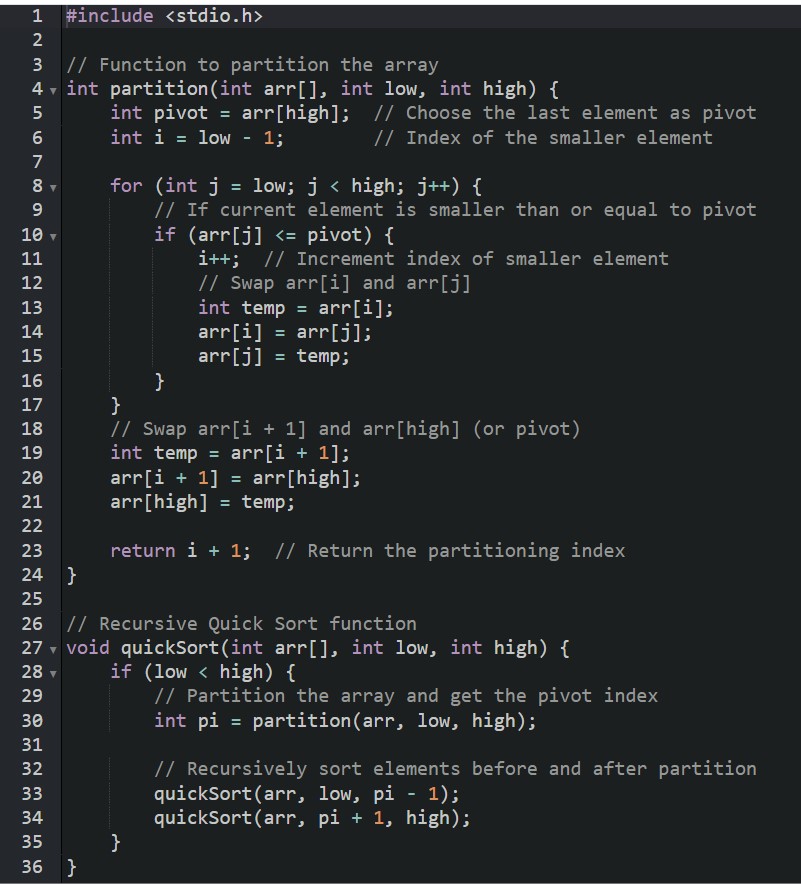
1. Two elements sum to x

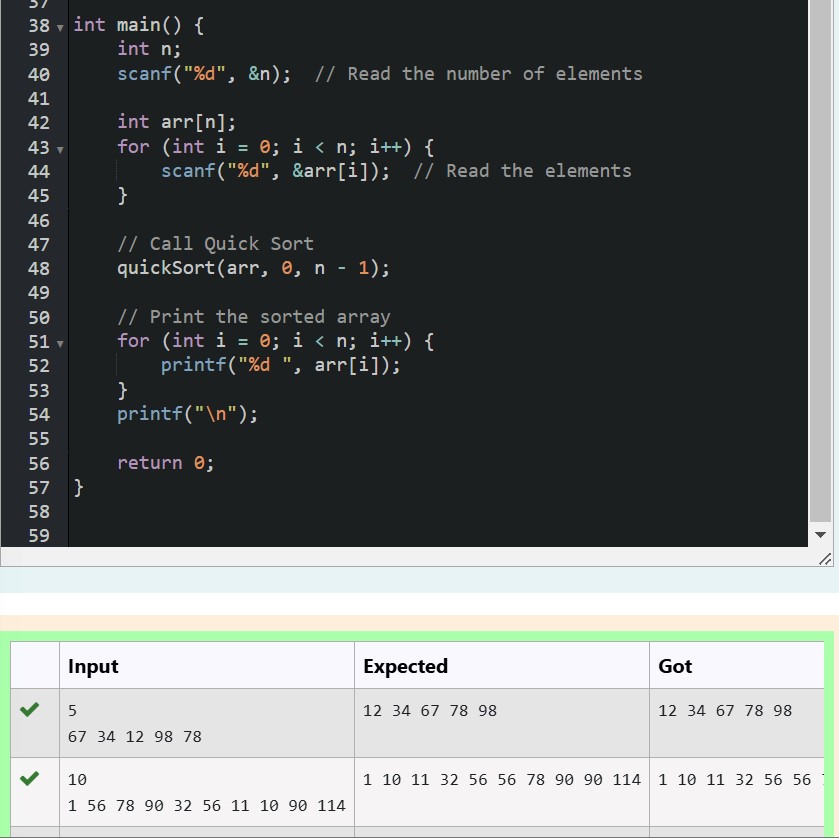




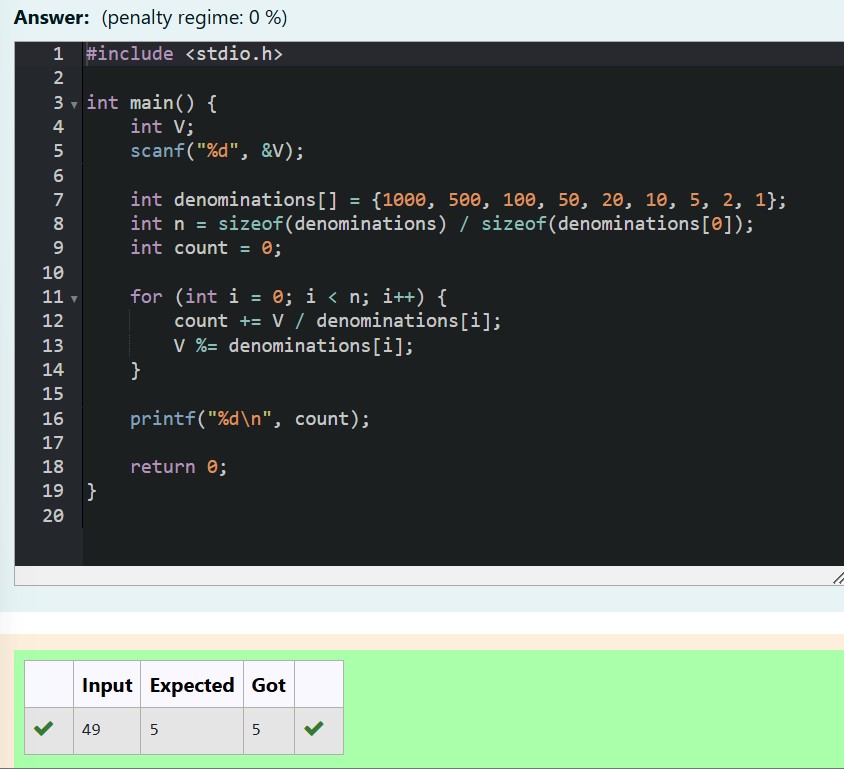


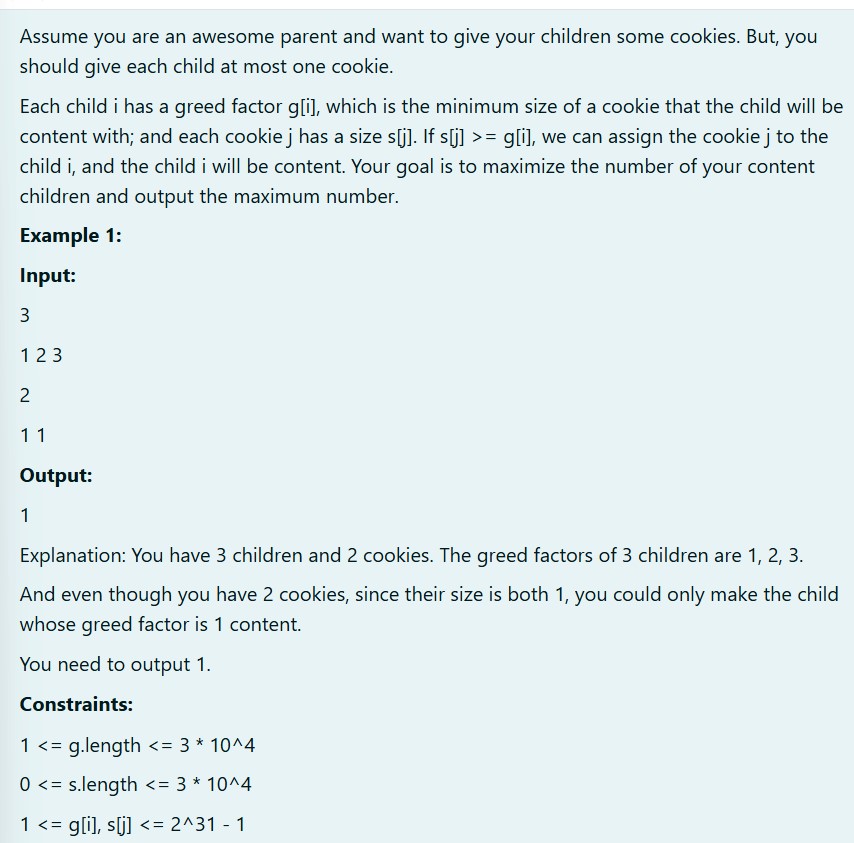




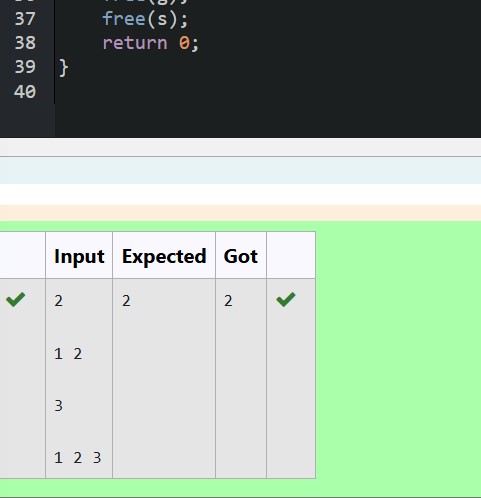




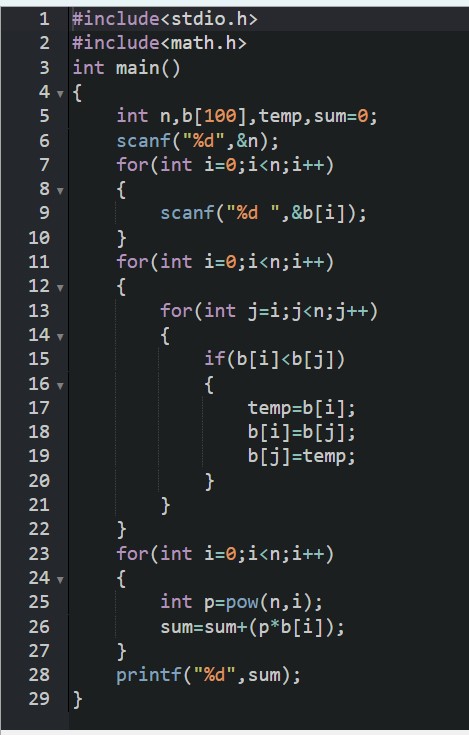






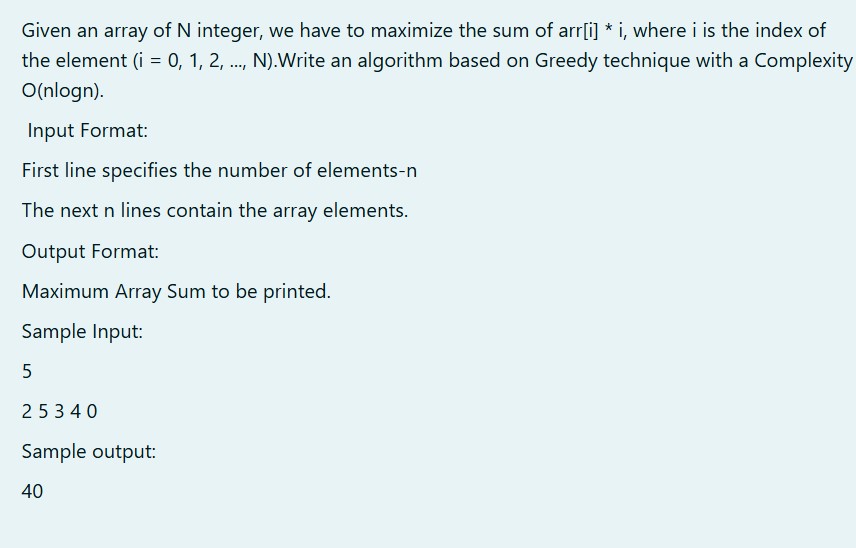


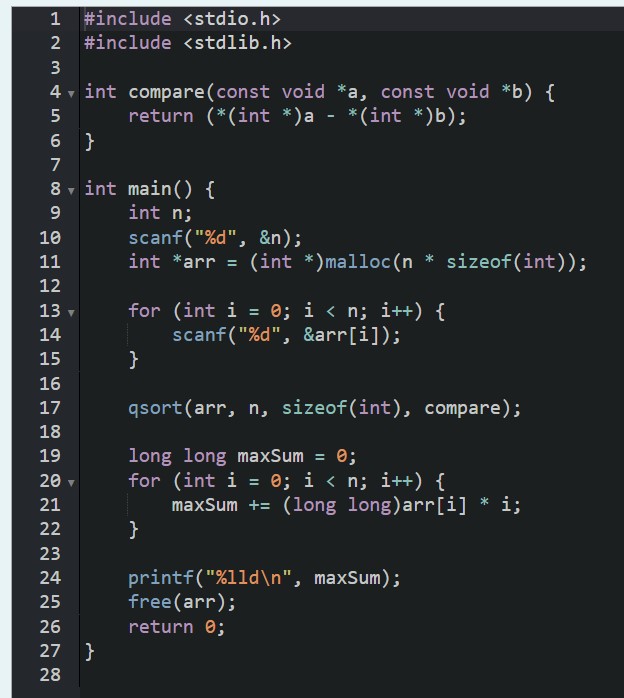


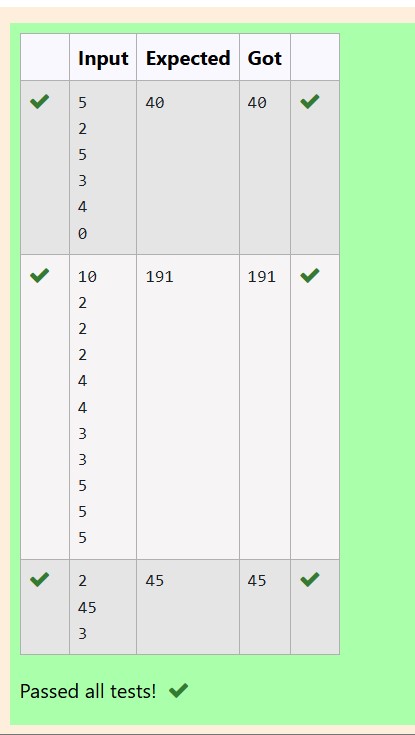




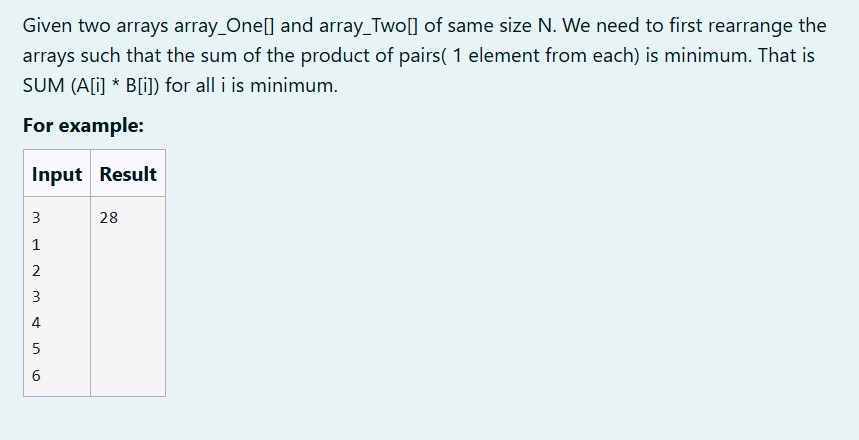
Array sum max problem

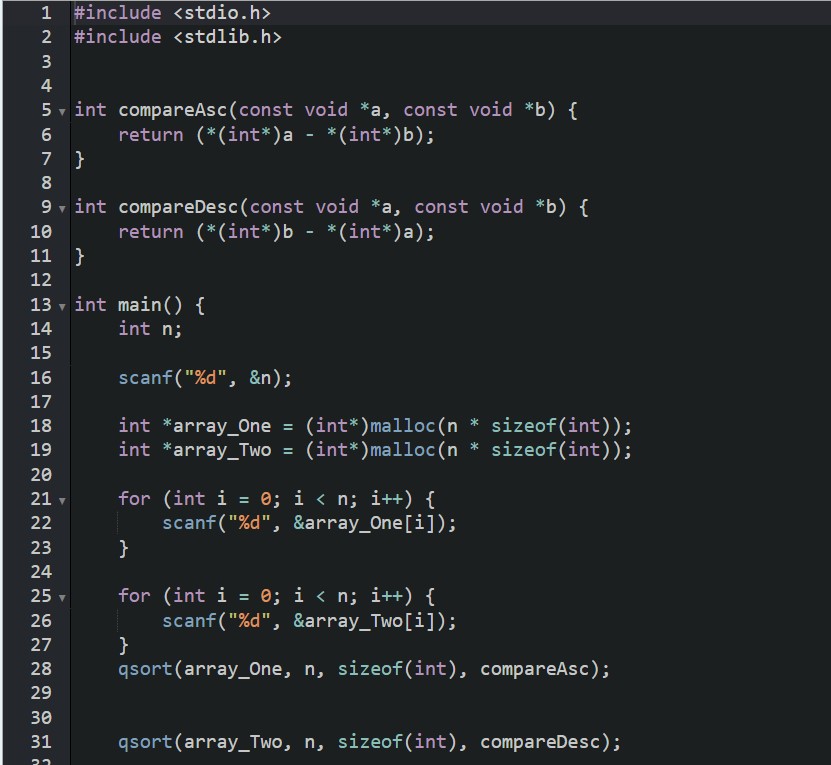


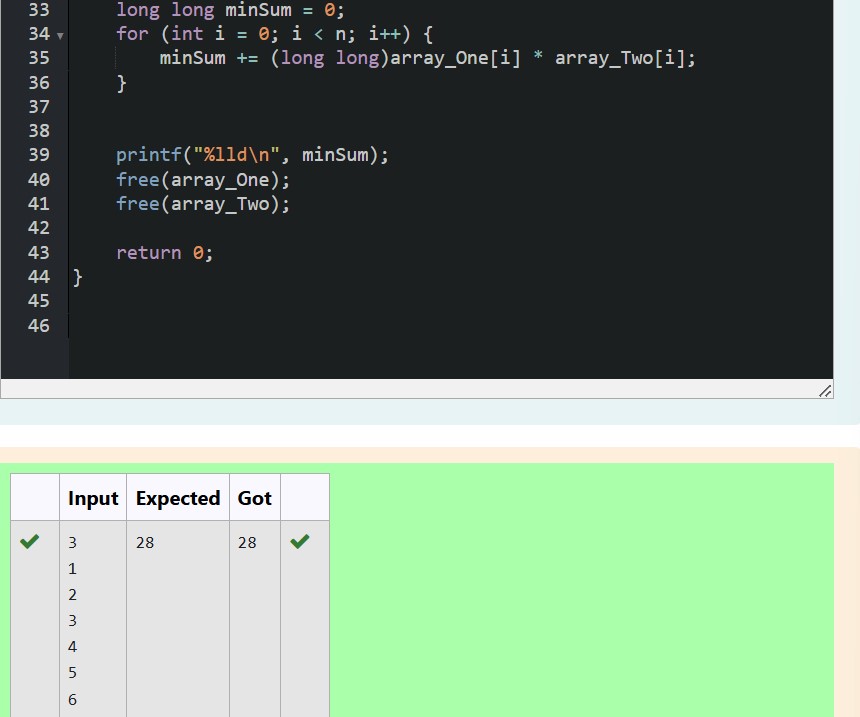




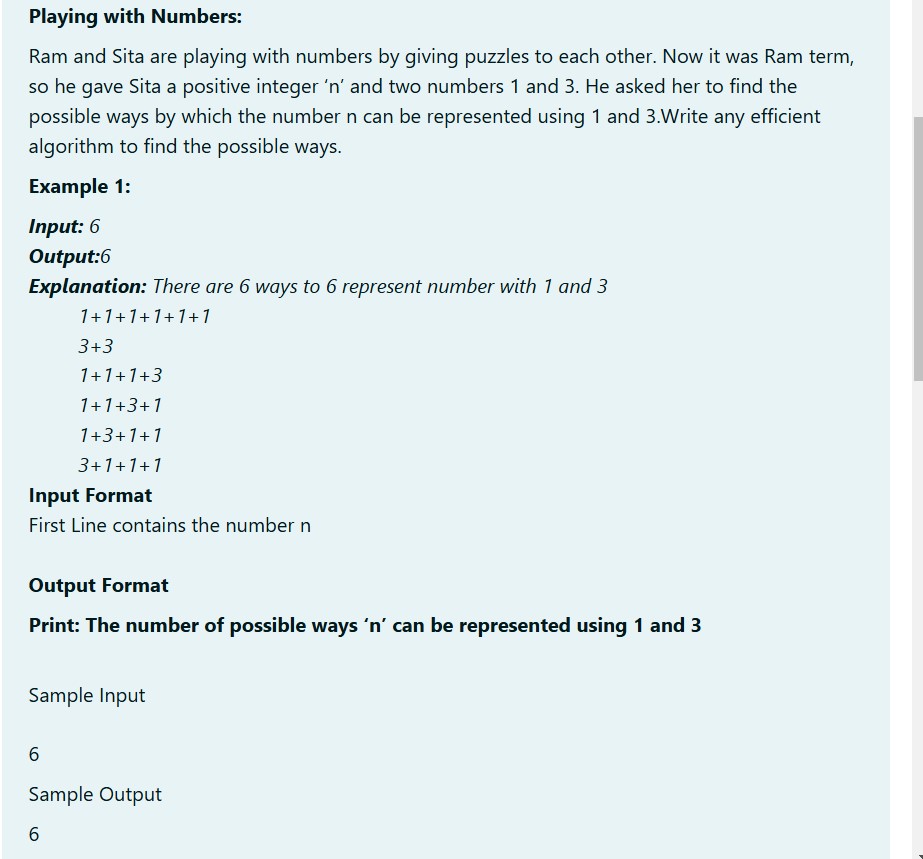
Product of array elements minimum

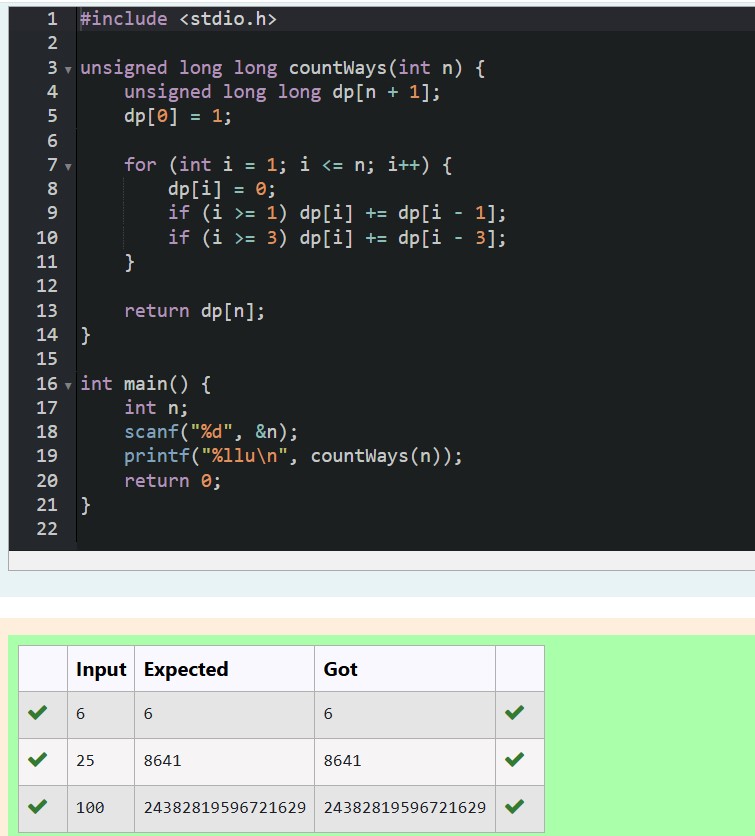


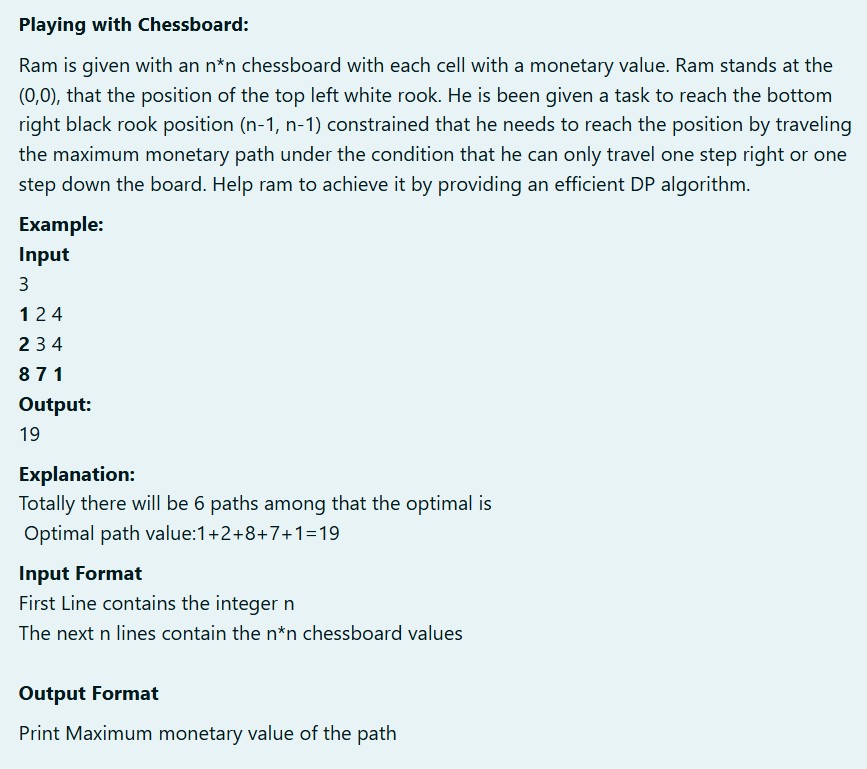


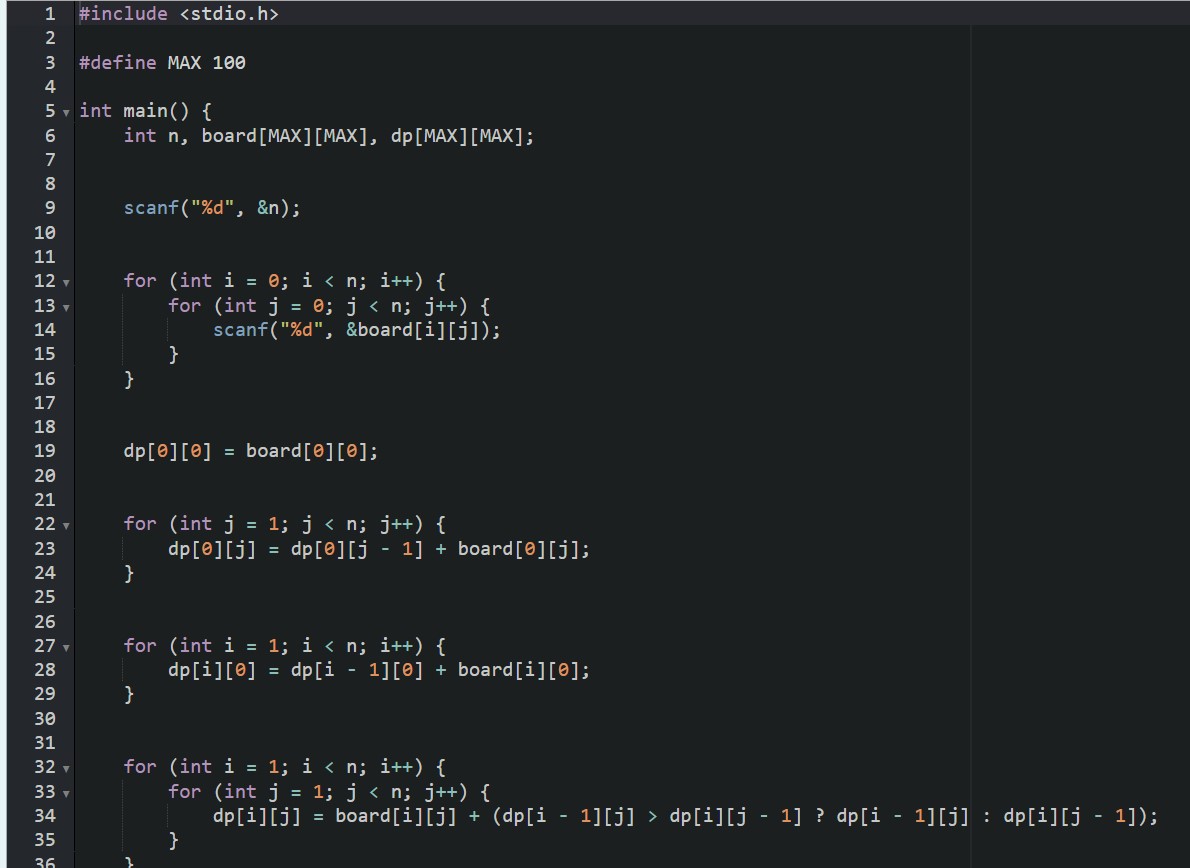


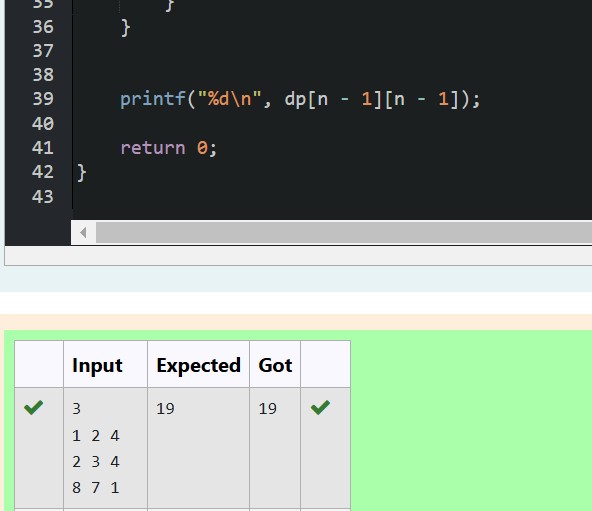
DYNAMIC PROGRAMMING



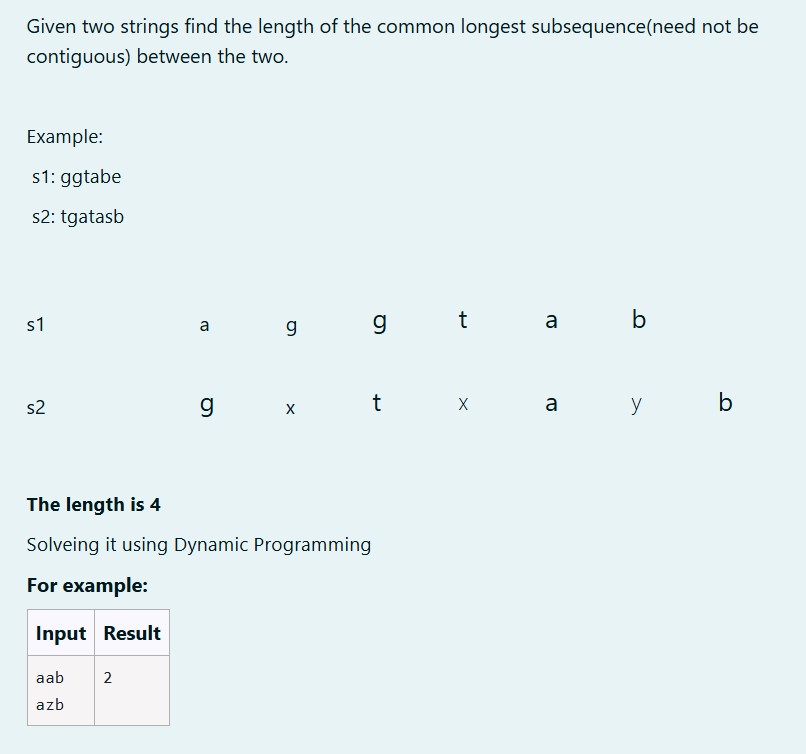


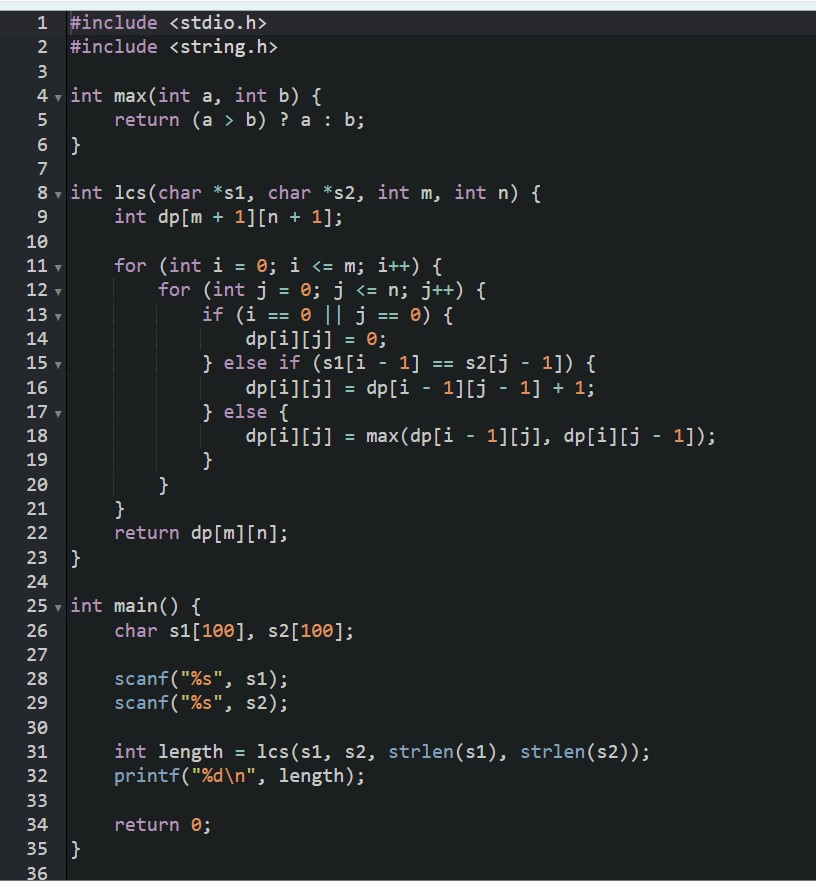


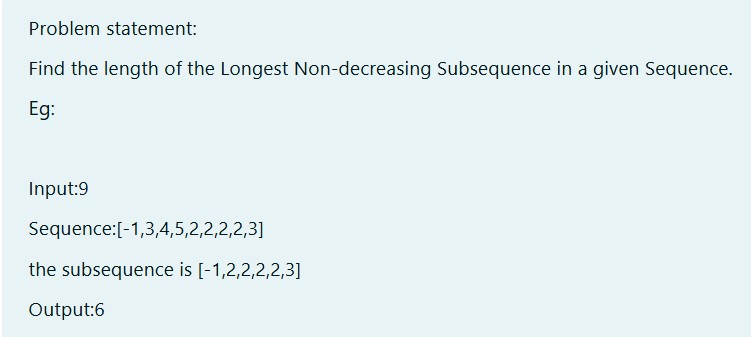


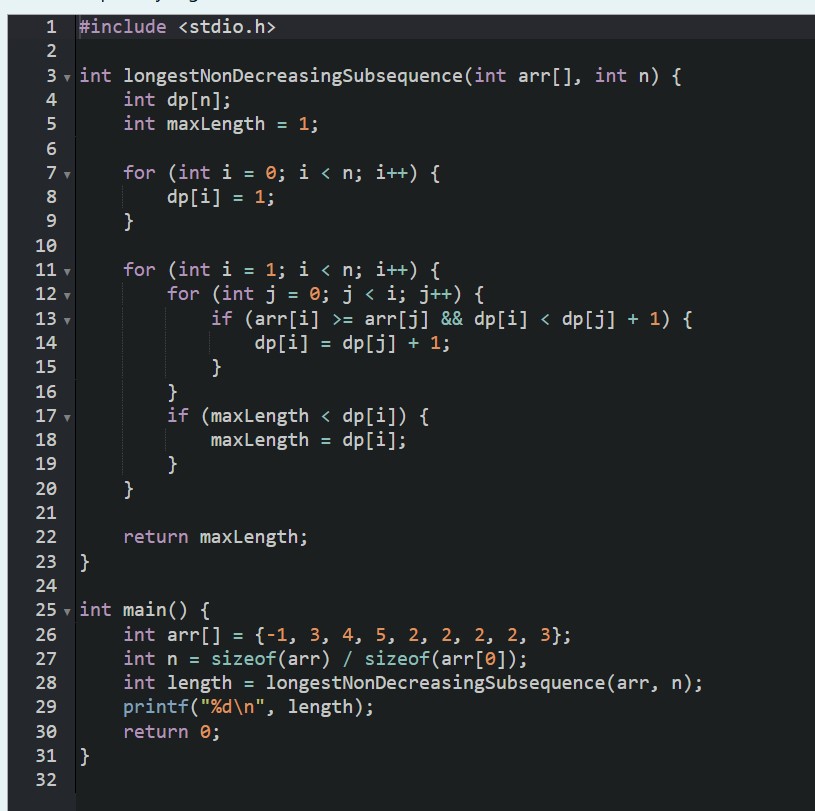


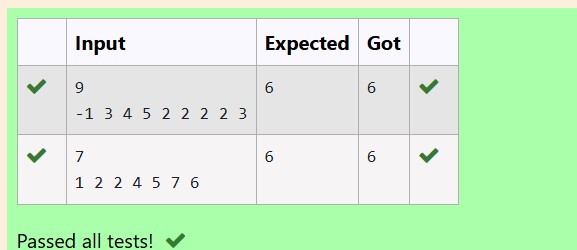
Longest common subsequence





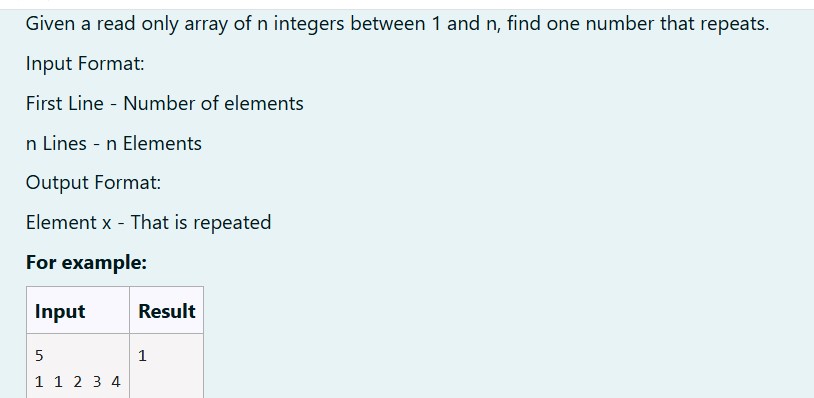


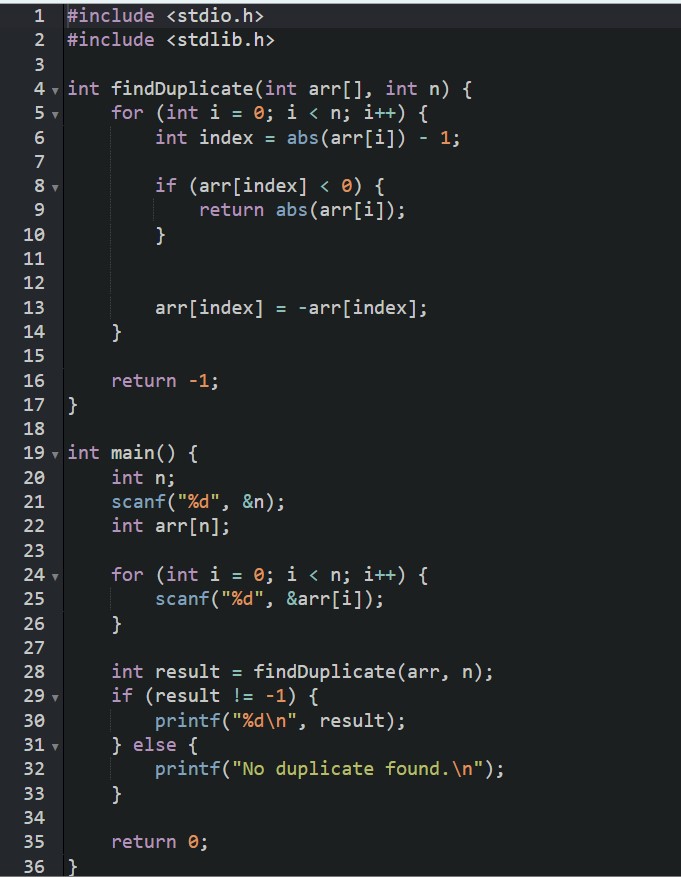


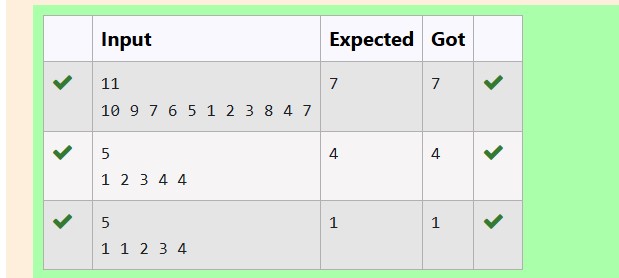


COMPETITIVE PROGRAMMING

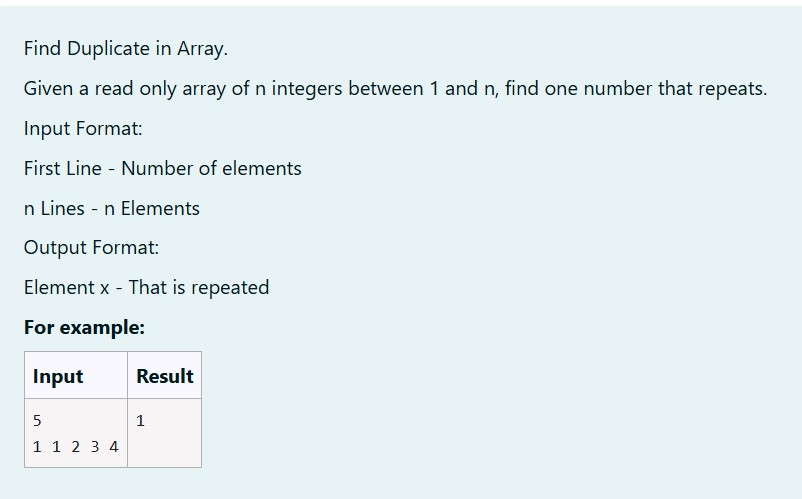
Complexity - O(n^n)

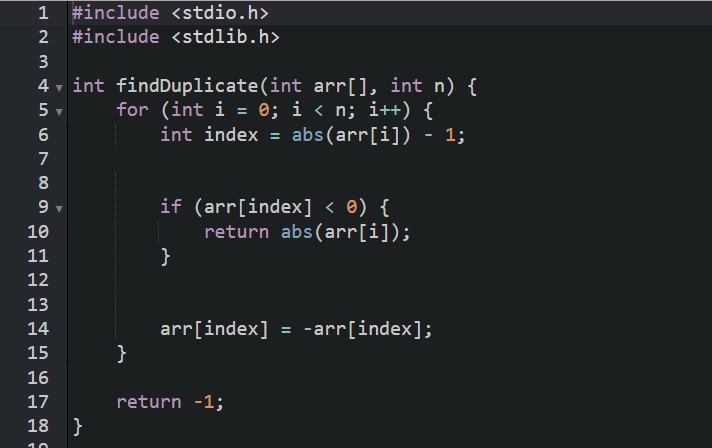


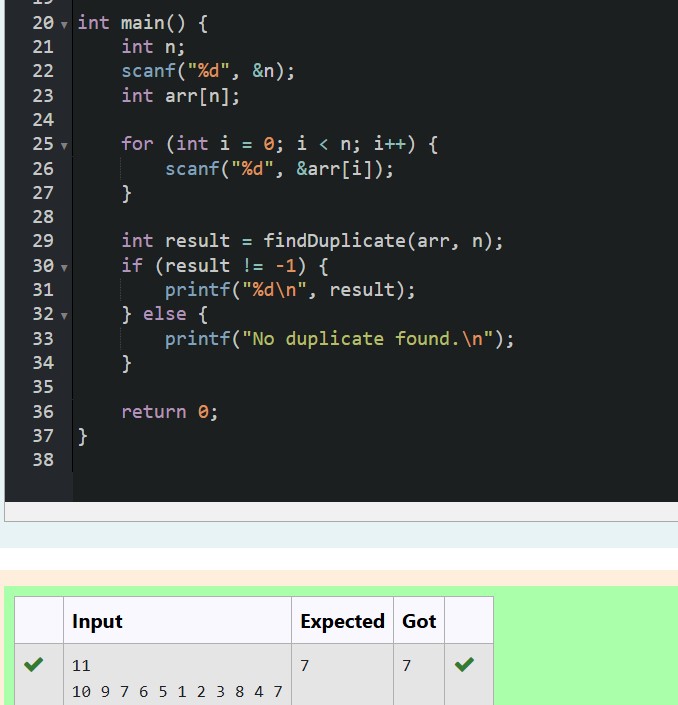




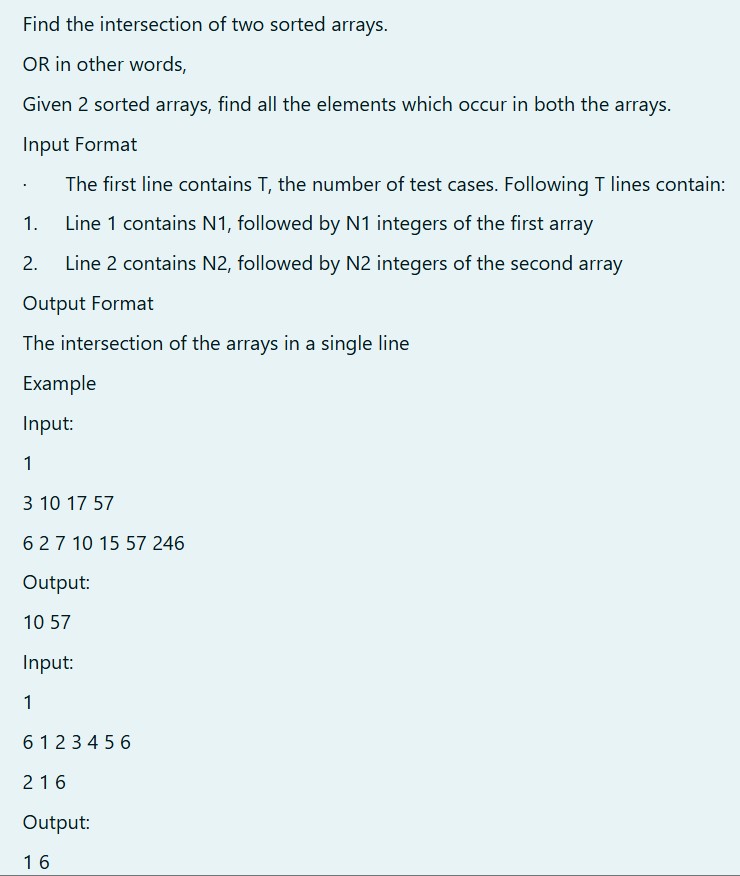
O(n) complexity

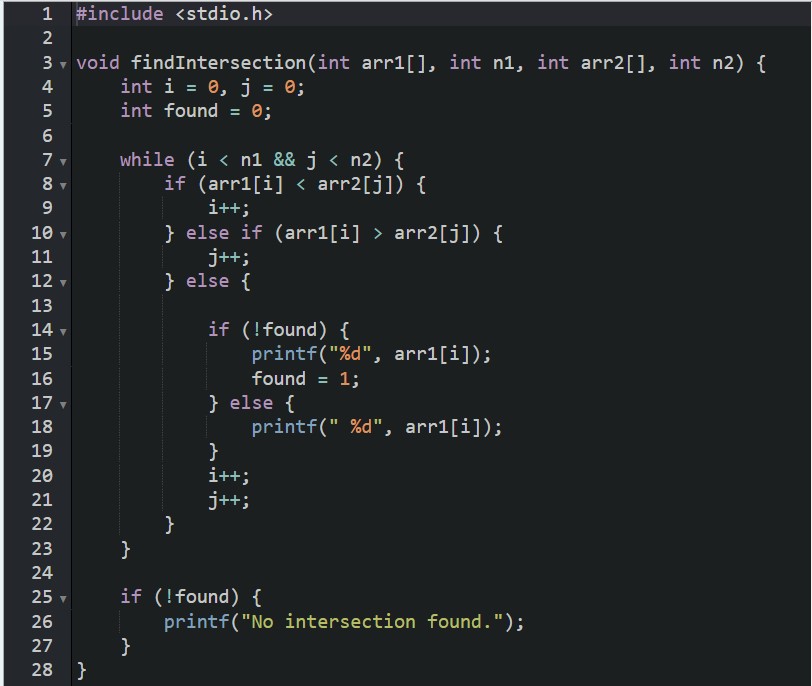






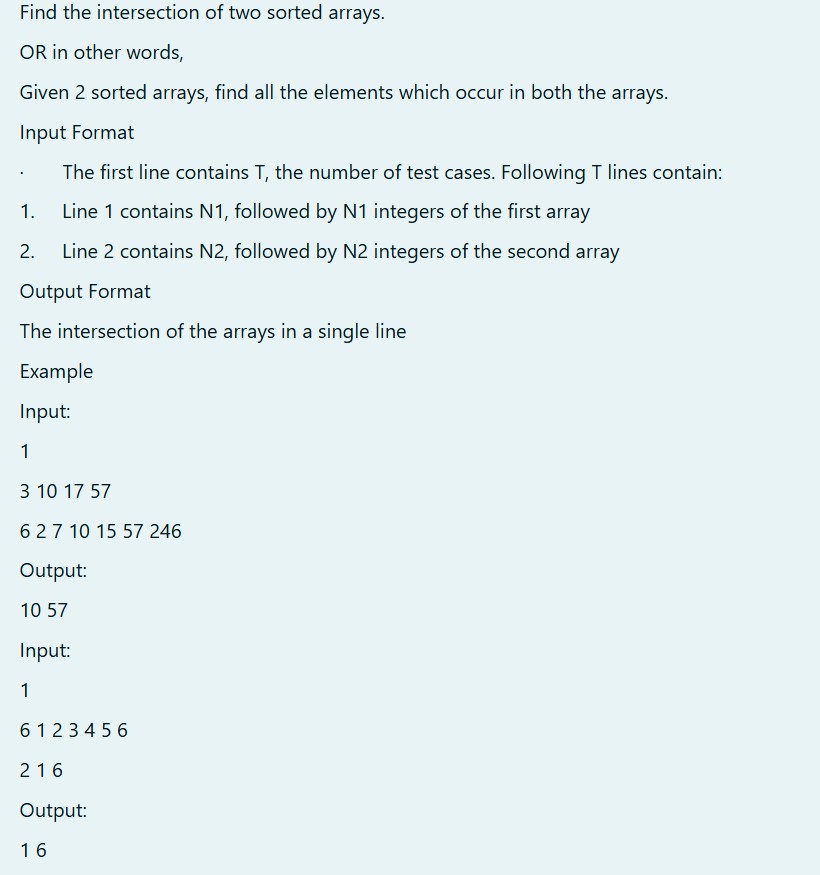
O(m\*n) complexity

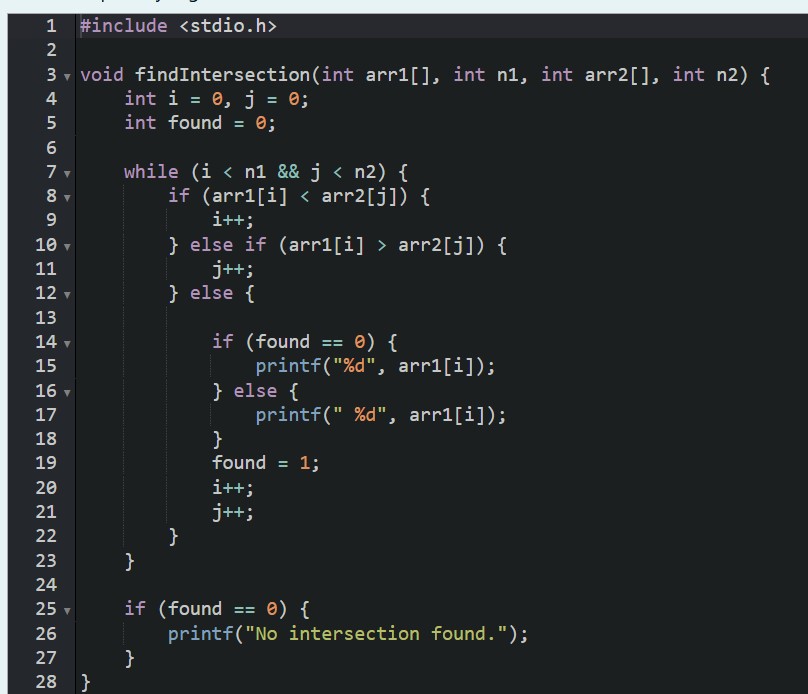


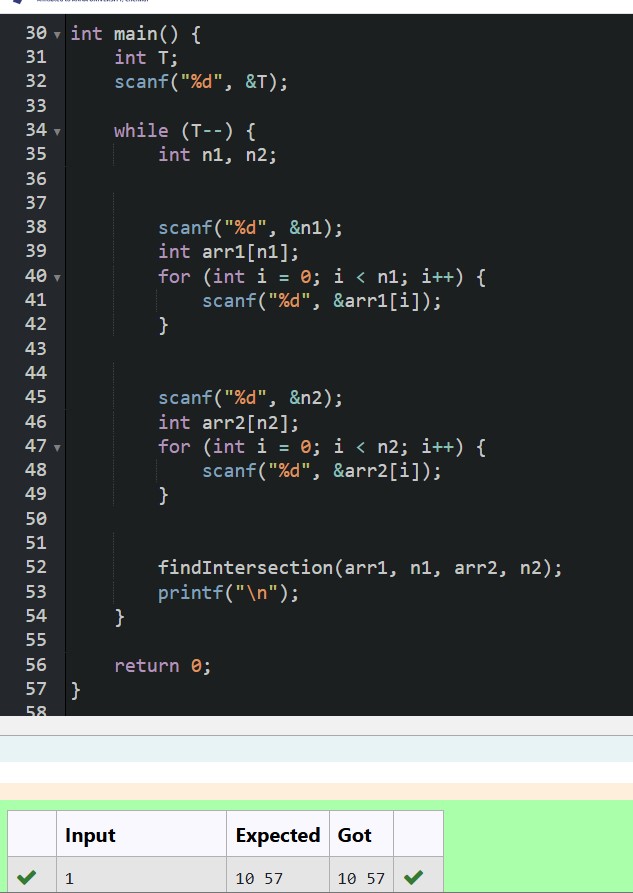




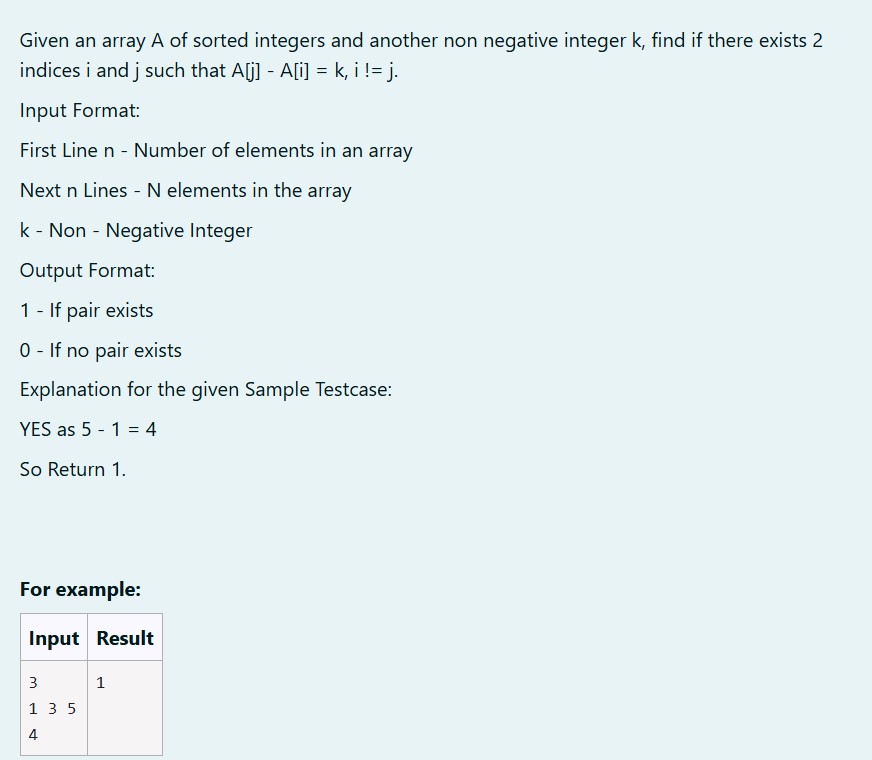
O(m+n) complexity



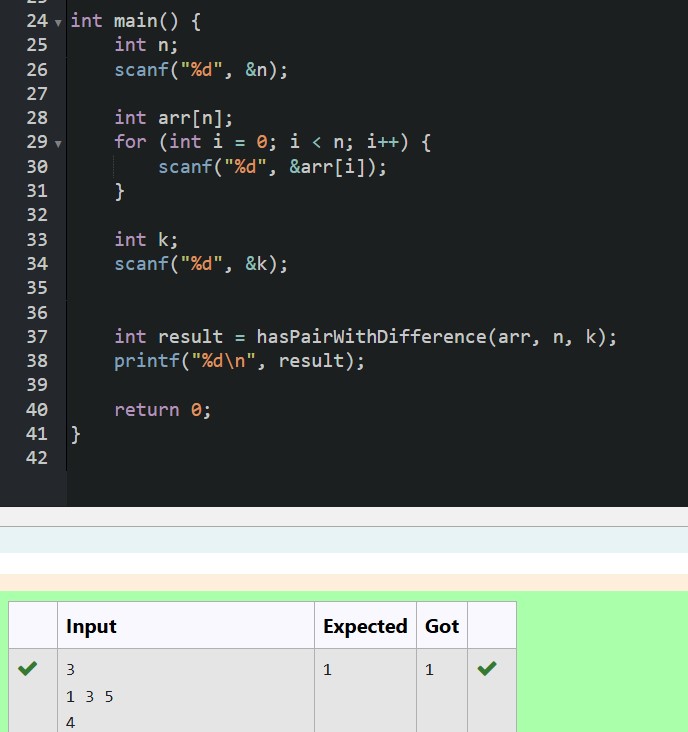




O(n^2) complexity







O(n) complexity



