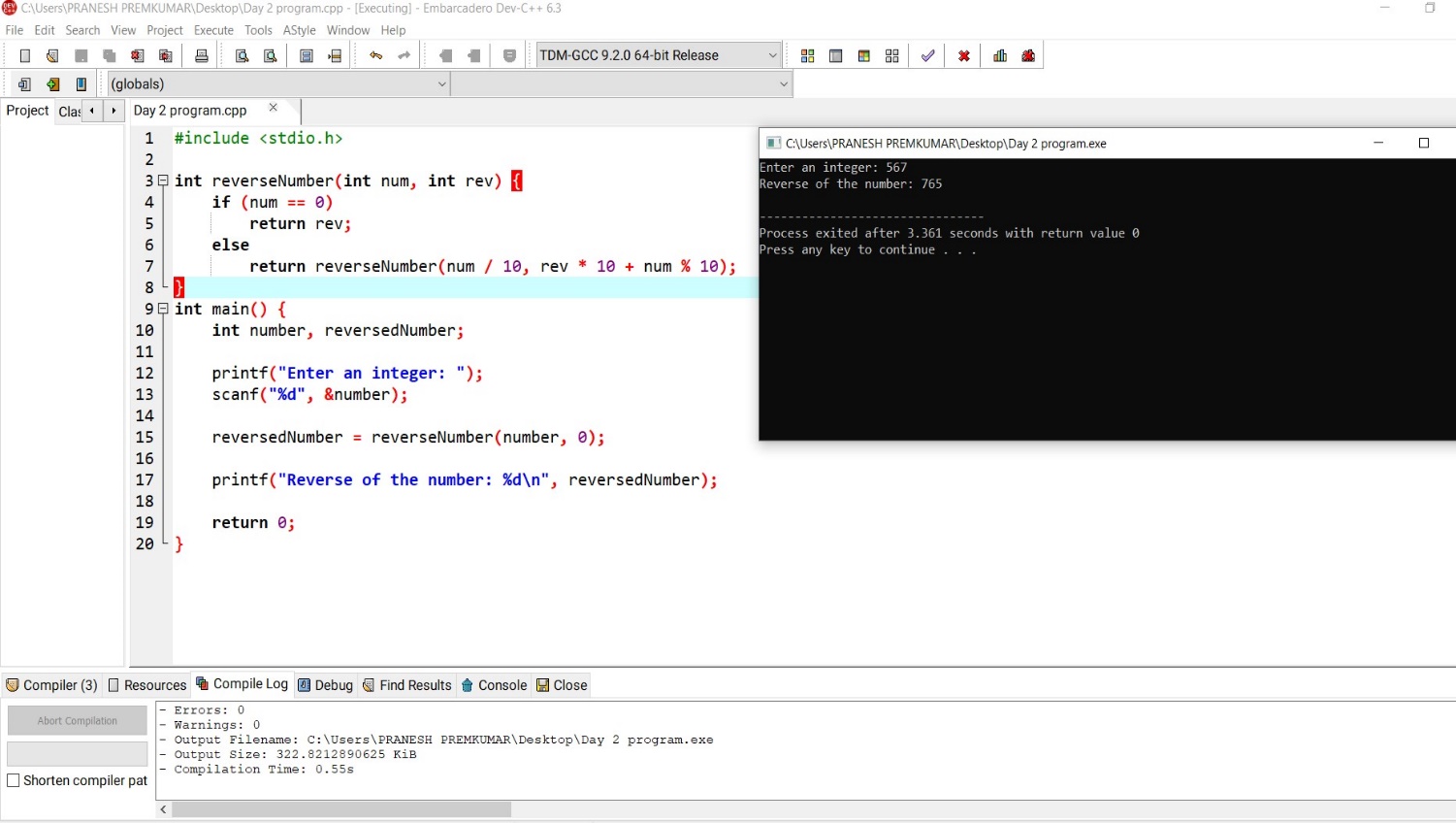
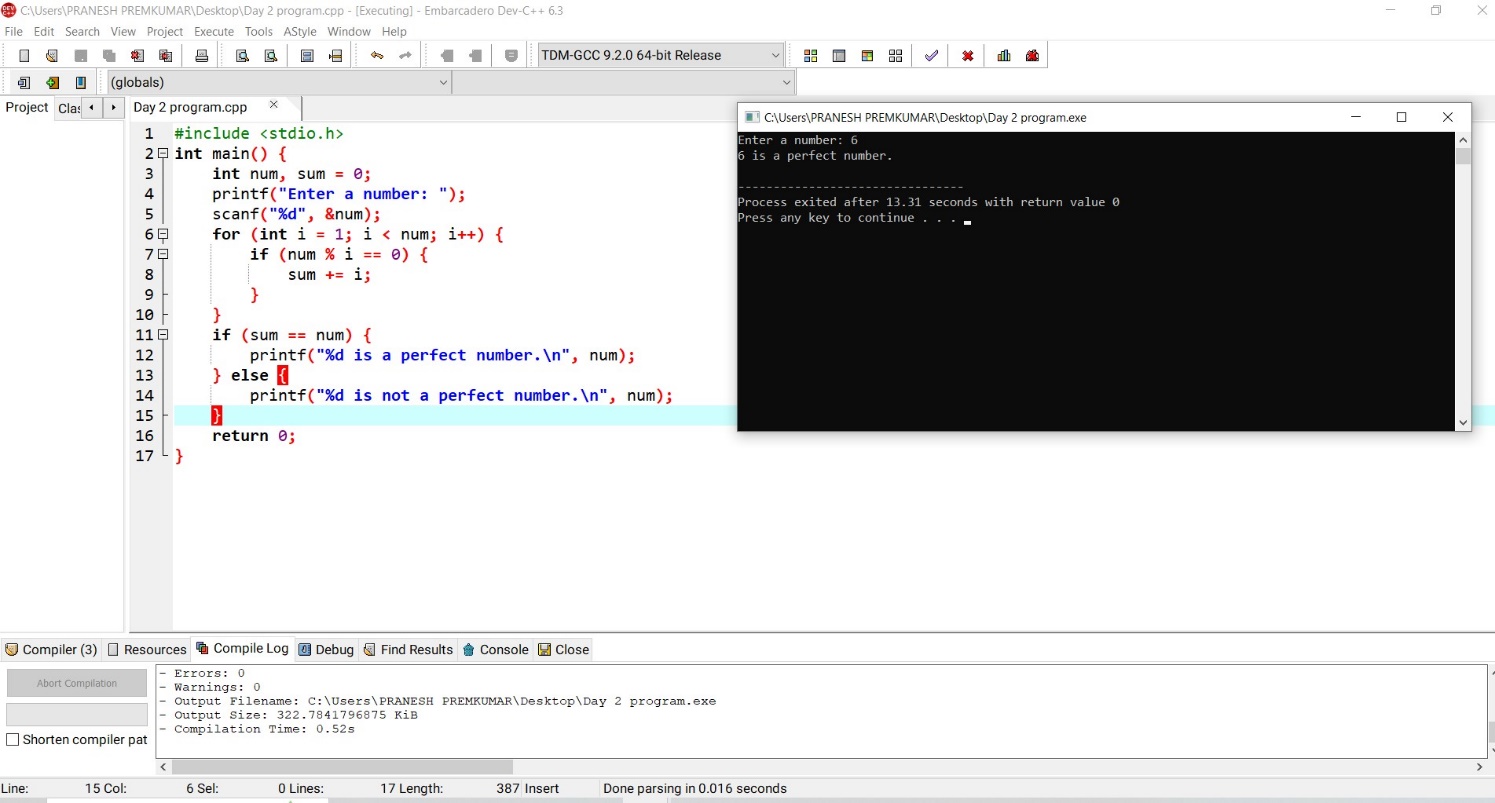
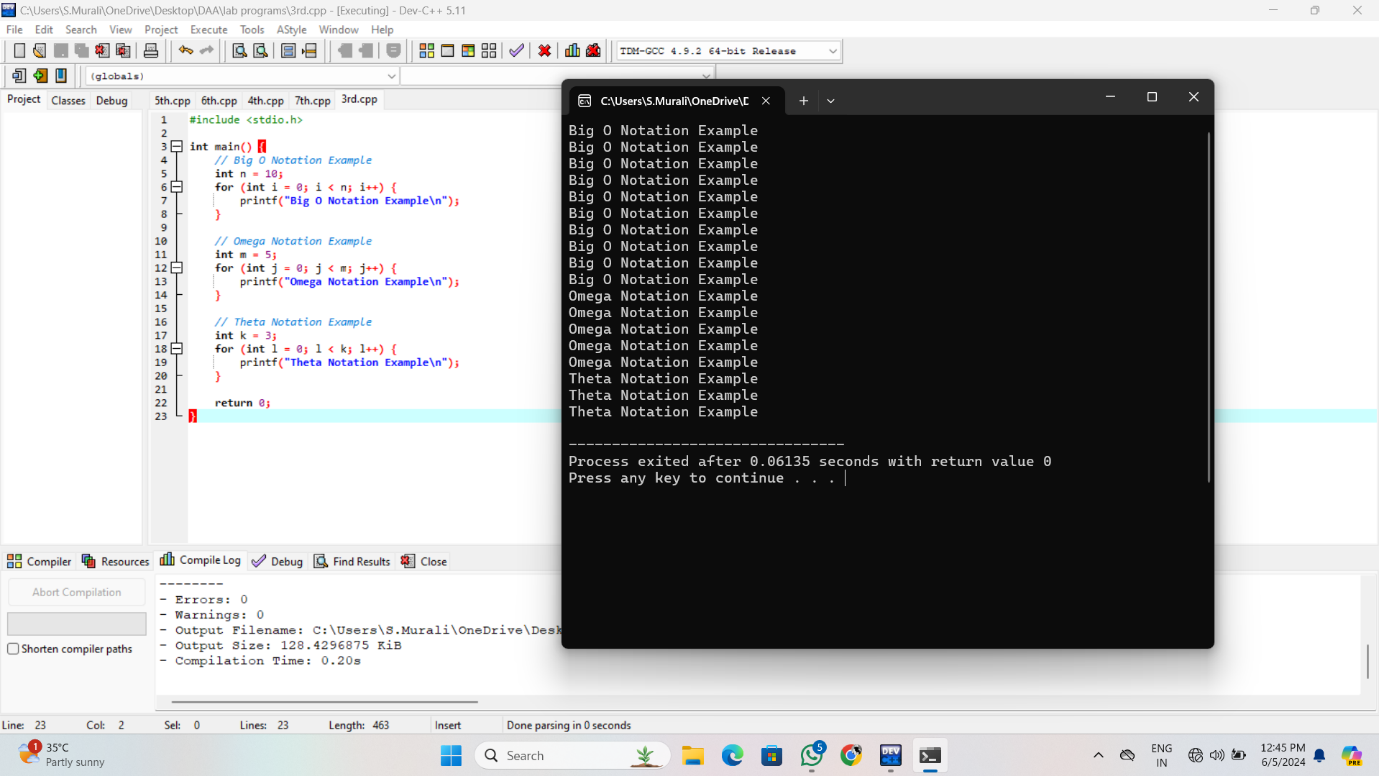
1. Reverse of a given number using recursive.



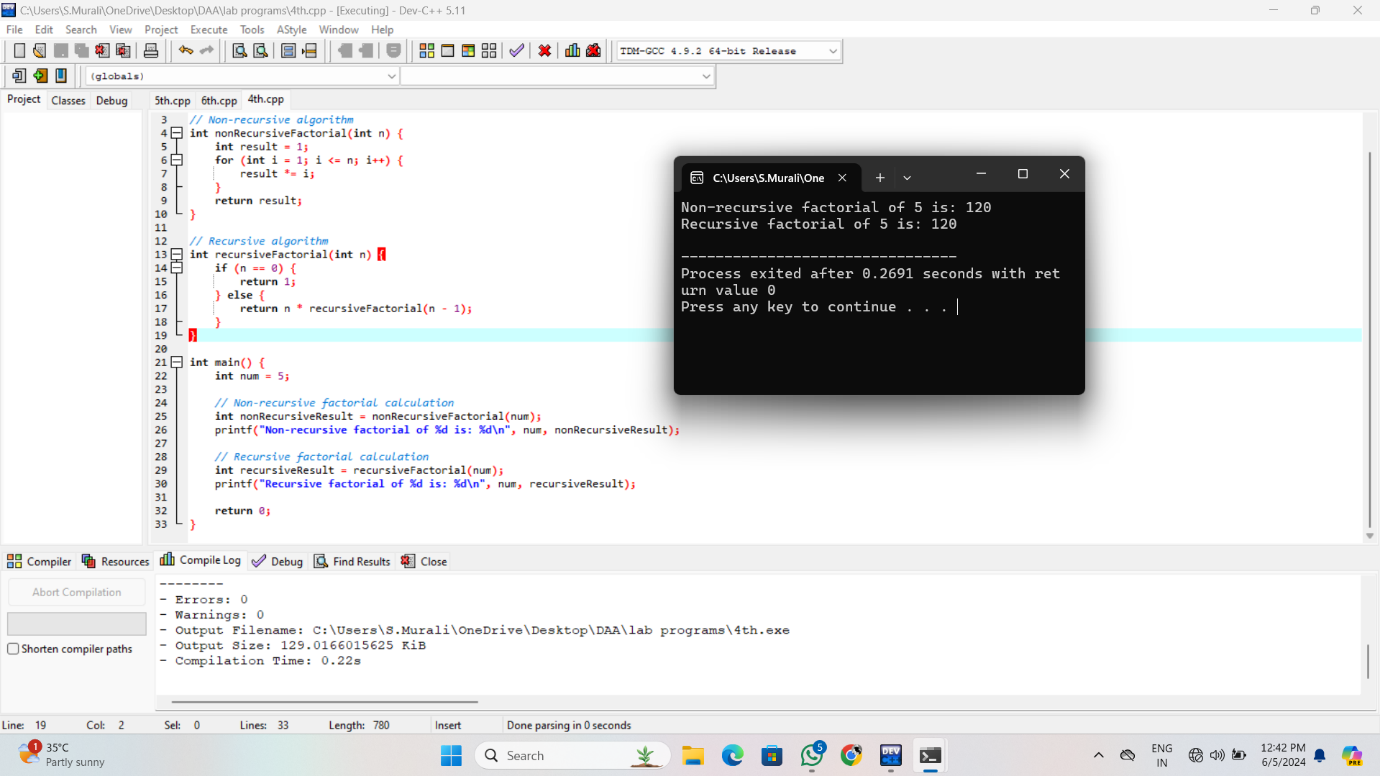
**2.** Perfect Number



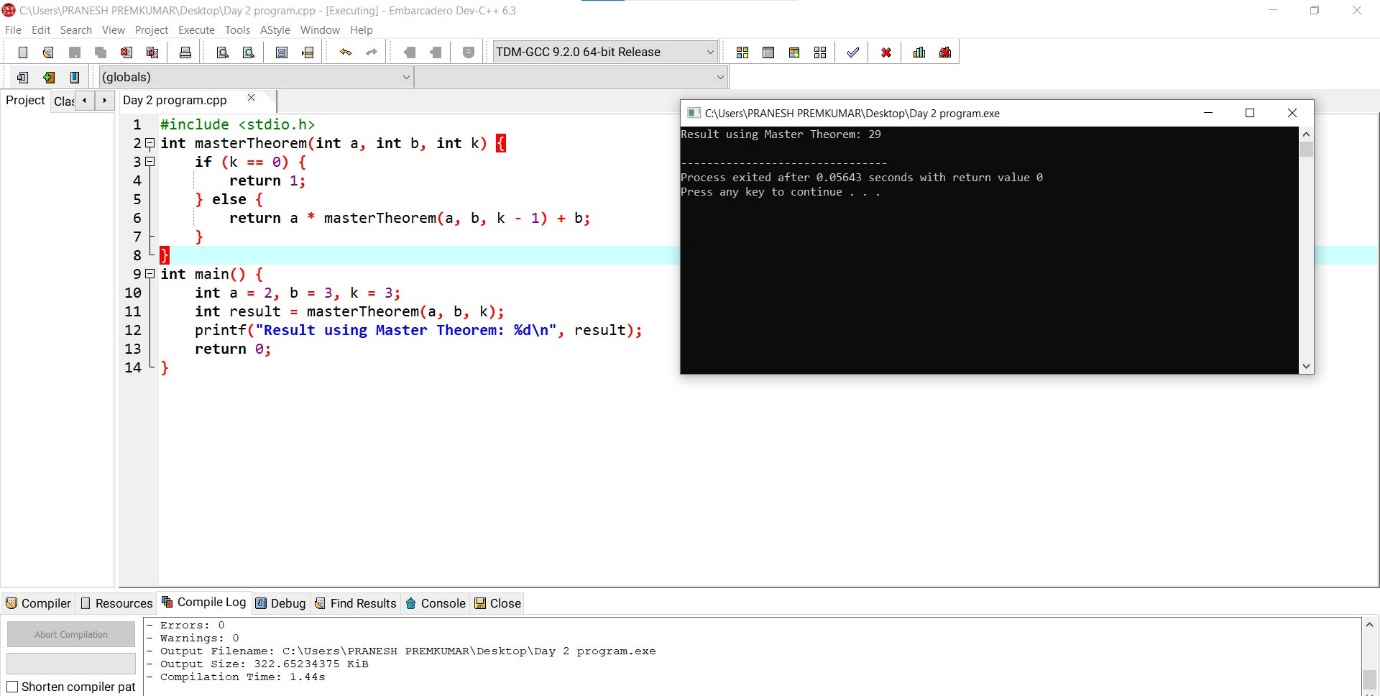
**3.** Analyzing The Time Complexity



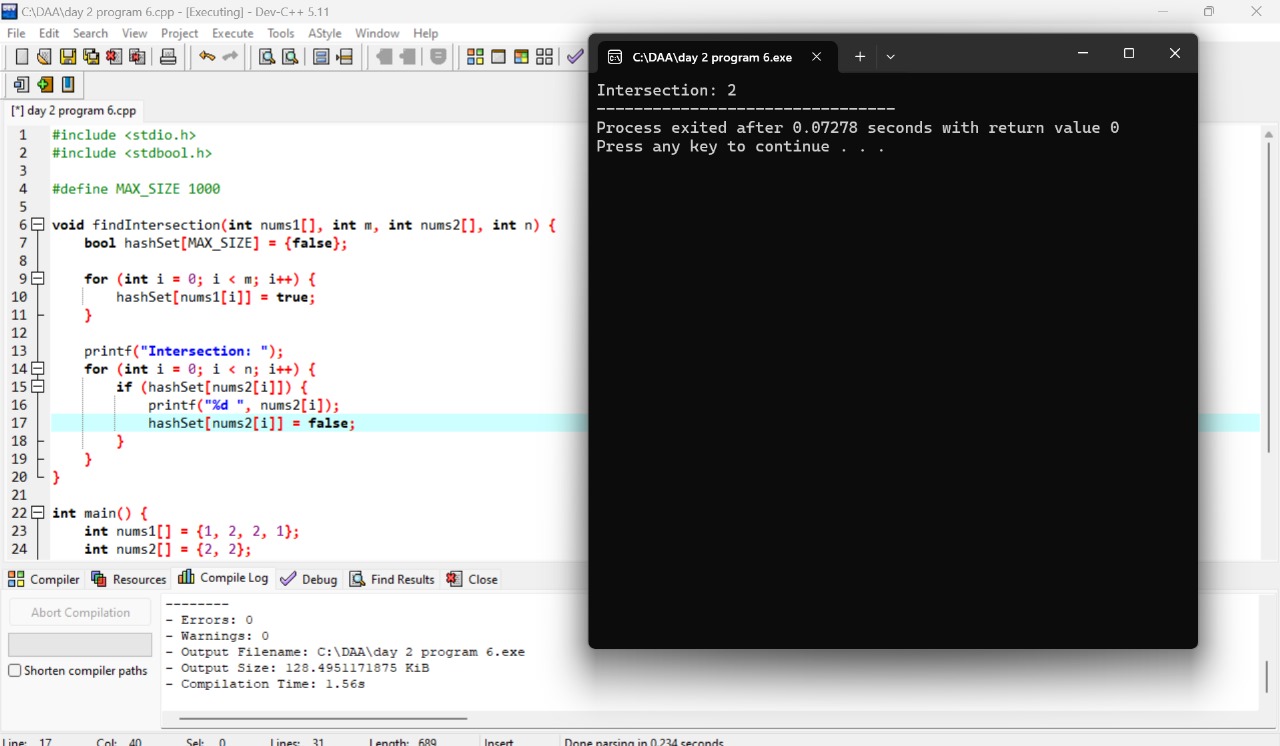
**4.** Mathematical Analysis of Non-Recursive and Recursive Algorithms.

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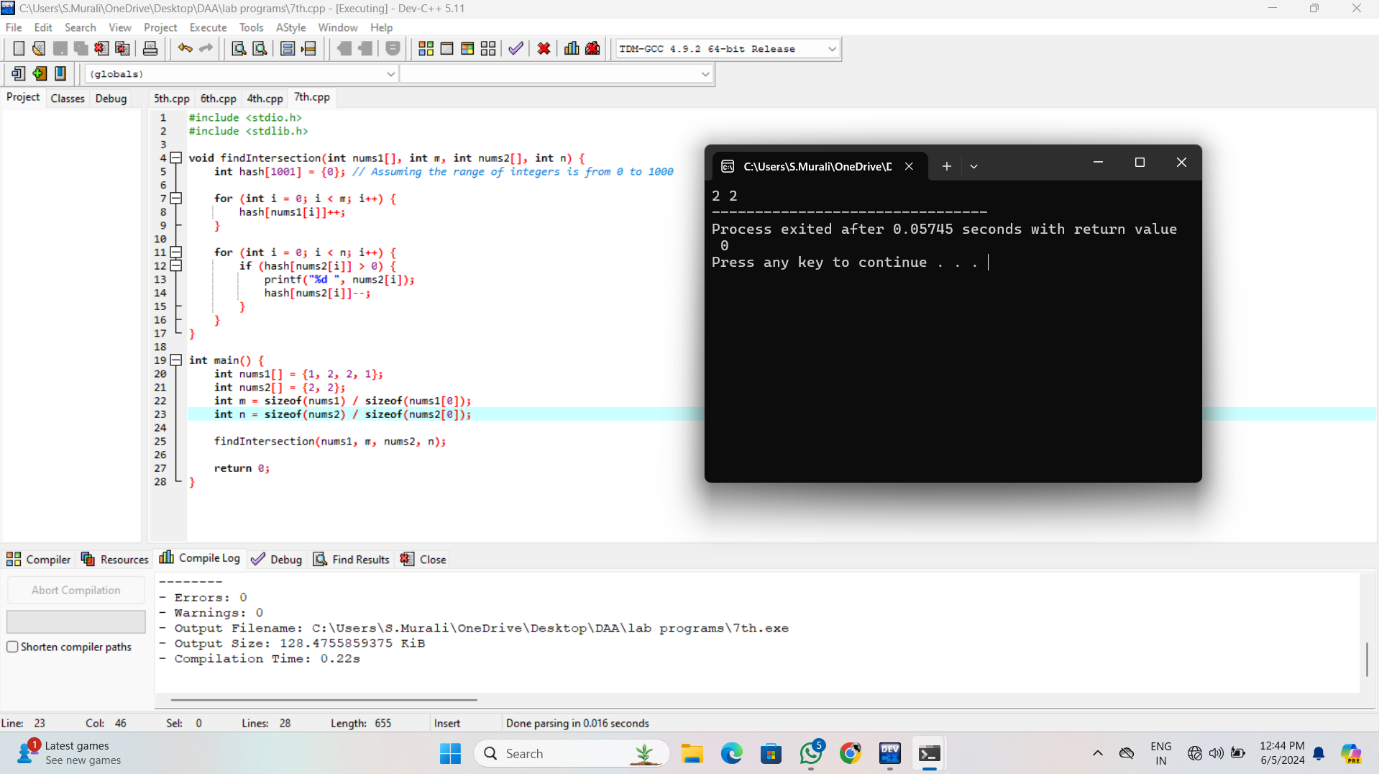
**5.** Recurrence Relations Using the Master Theorem, Substitution Method, And Iteration Method.

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**6.** Given two integer arrays nums1 and nums2, return an array of their Intersection.

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**7.** Each element in the result must appear as many times as it shows in both arrays and you may return the result in any order.

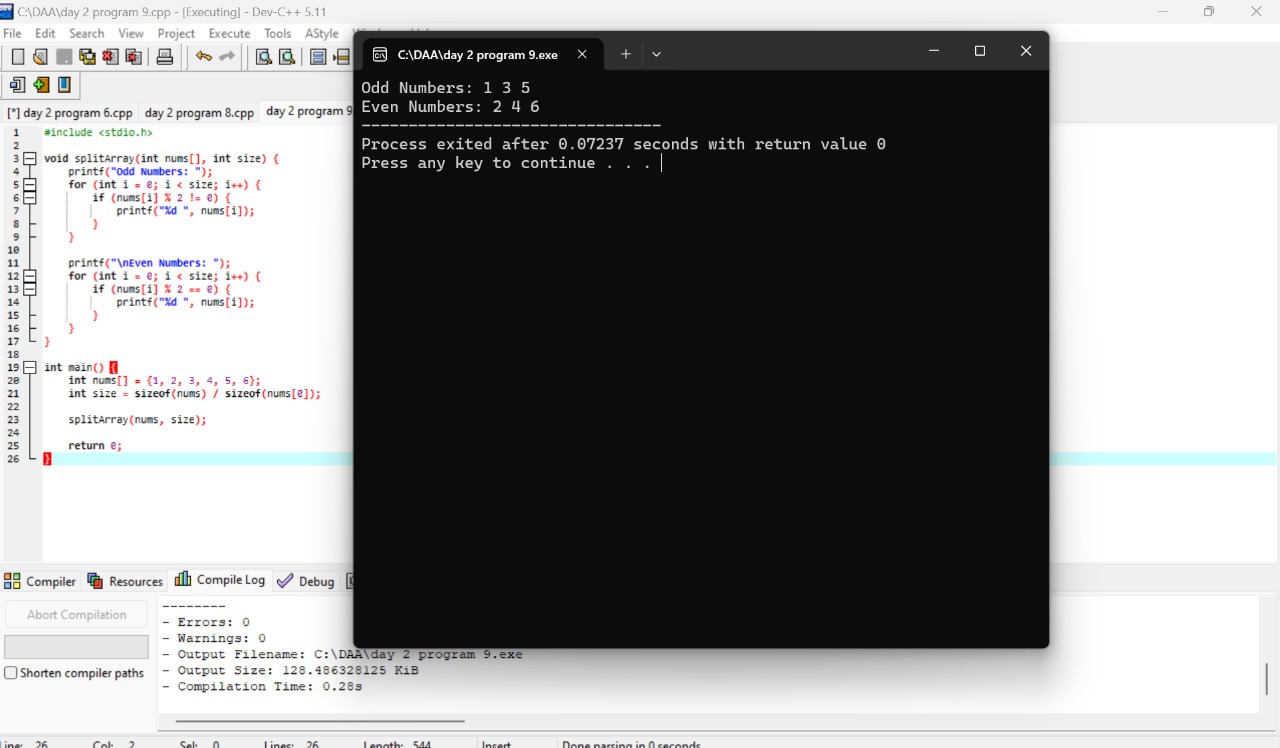
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**8.** Given an array of integers nums, sort the array in ascending order and return it.You must solve the problem without using any built-in functions in O(nlog(n)) time complexity and with the smallest space complexity possible

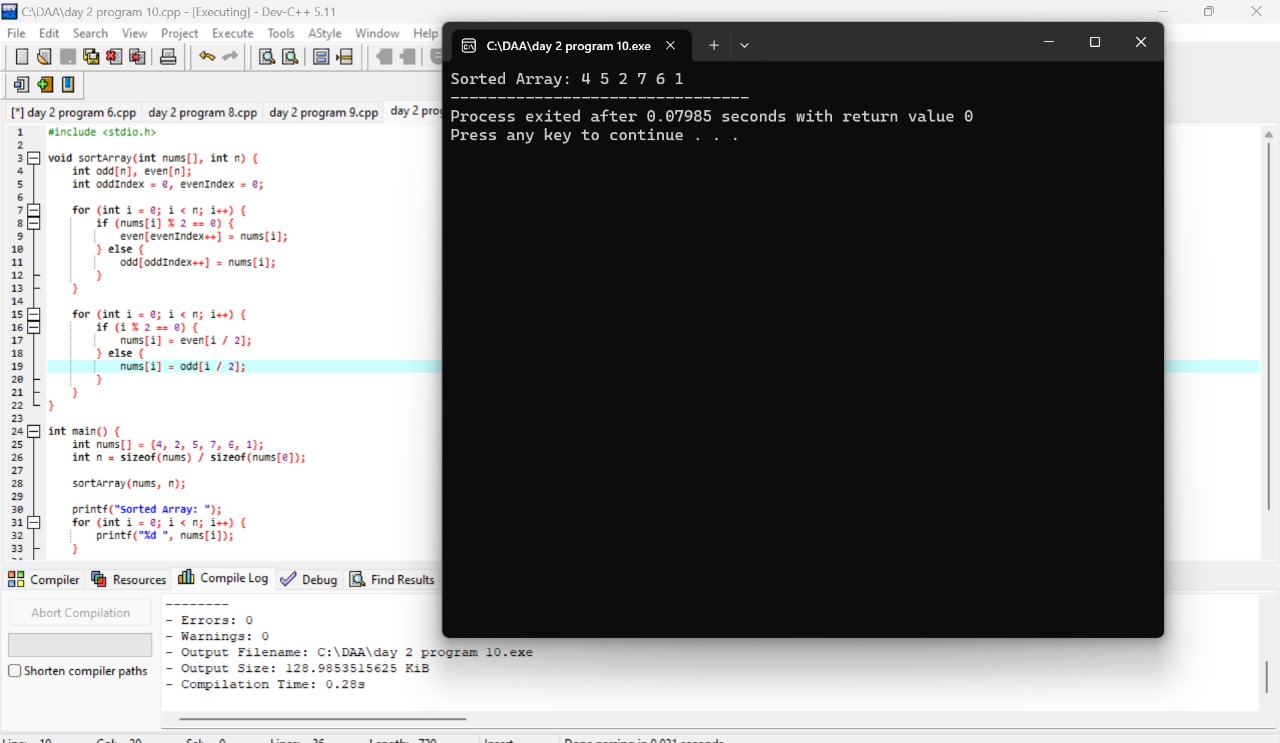
**A screenshot of a computer

Description automatically generated**

**9.** Given an array of integers nums, half of the integers in nums are odd, and the other half are even.

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**10.** hSort the array so that whenever nums[i] is odd, i is odd, and whenever nums[i] is even, i is even. Return any answer array that satisfies this condition**.**

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