**SAVEETHA SCHOOL OF ENGINEERING**

**SAVEETHA INSTITUTE OF MEDICAL AND TECHNICAL SCIENCES DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

**Academic Year 2022-23**

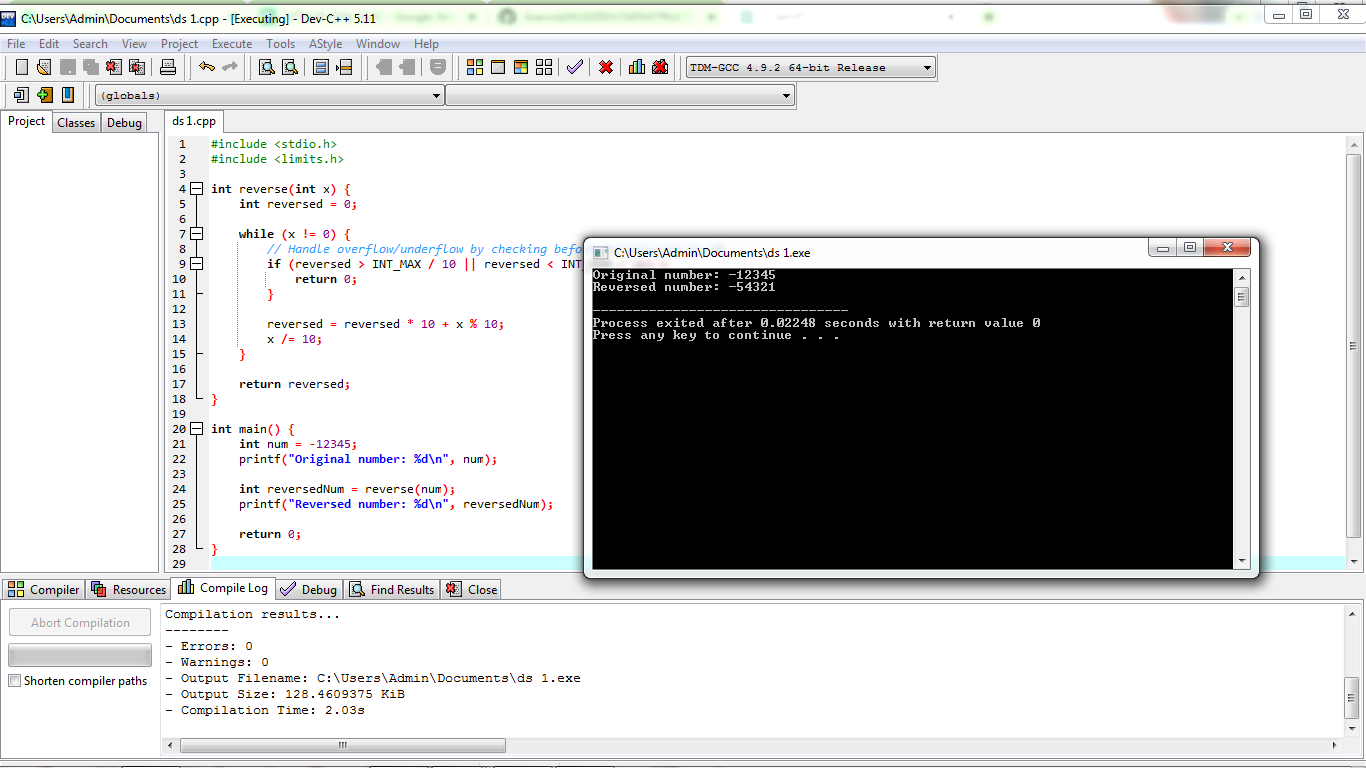
**List of Programs**

**Course Code –CSA03 Course Name - DATA STRUCTURES**

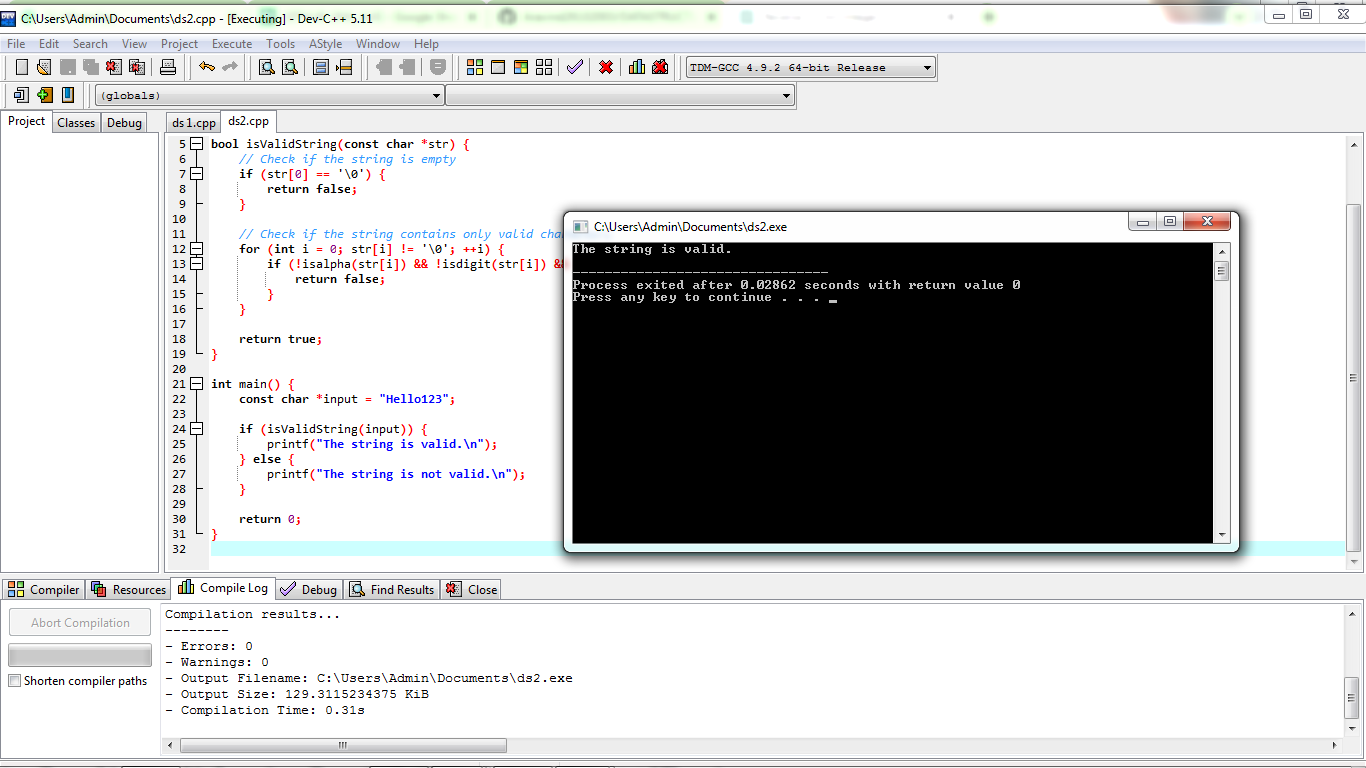
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|  | **PROGRAMS** |

**Exam oriented programs**

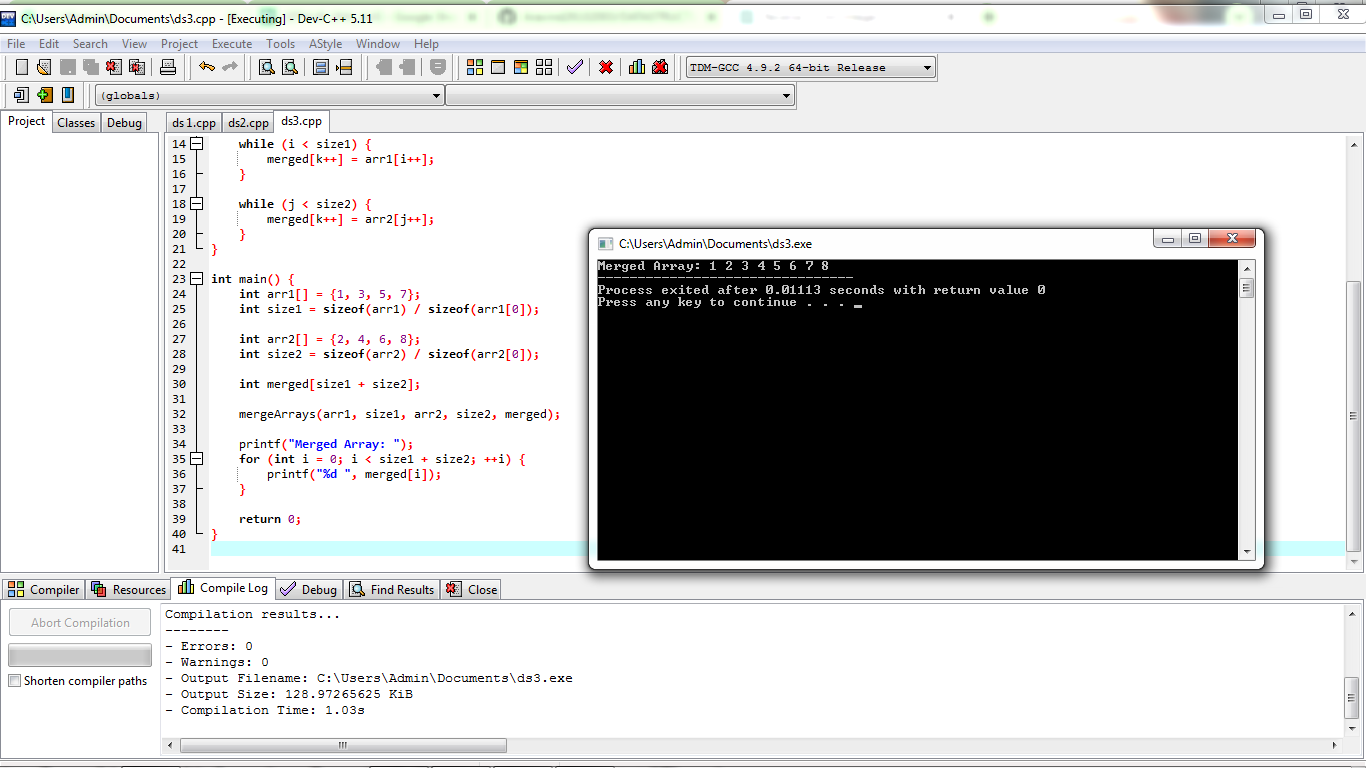
1. **Reversing a 32 but signed intergers**



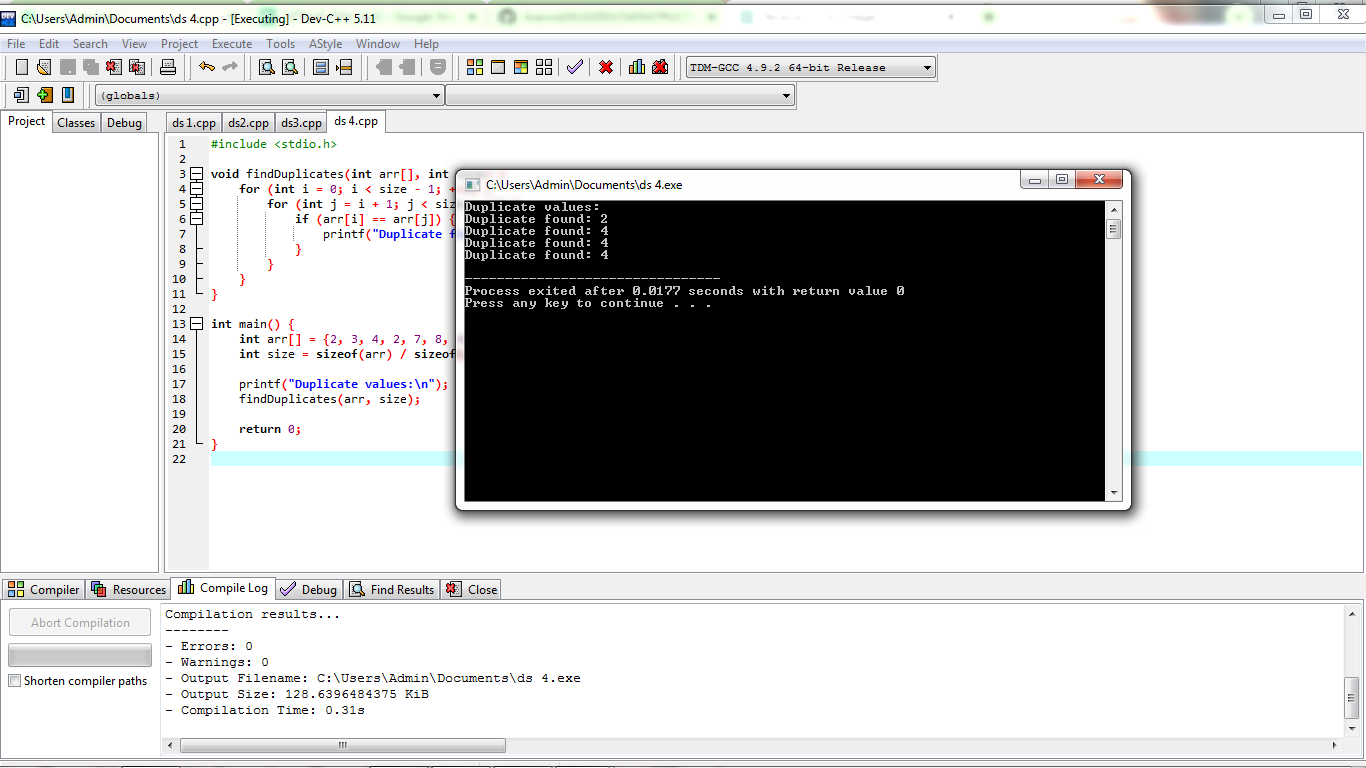
1. **Check for a valid String**



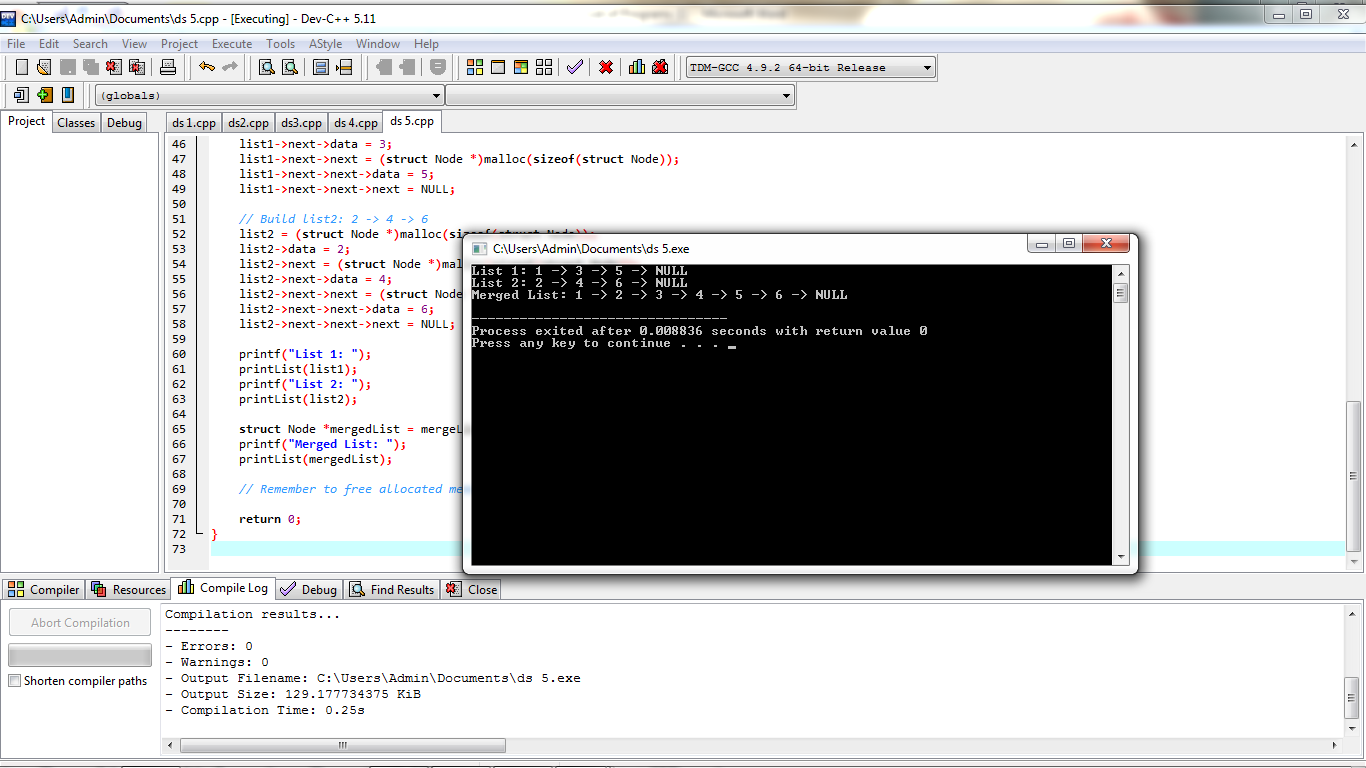
1. **Merging two Arrays**



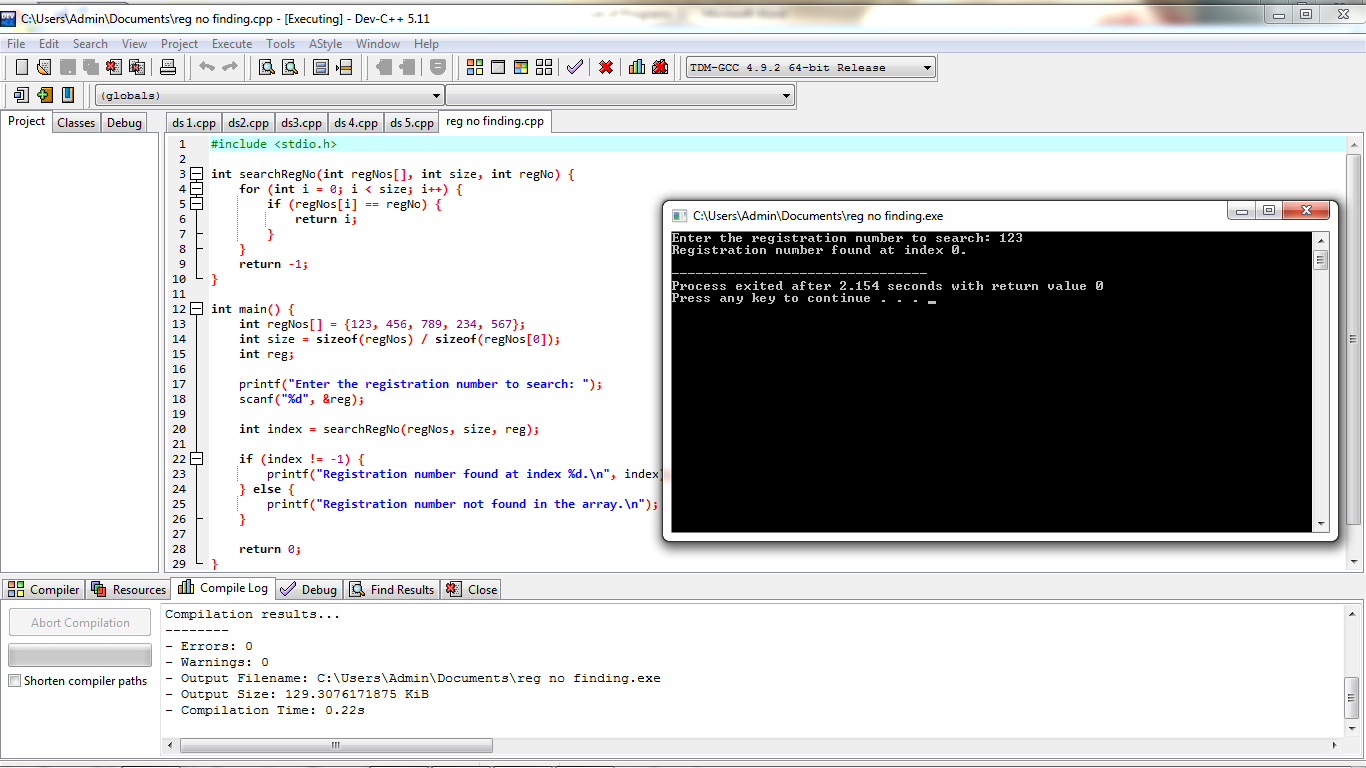
1. **Given an array finding duplication values**



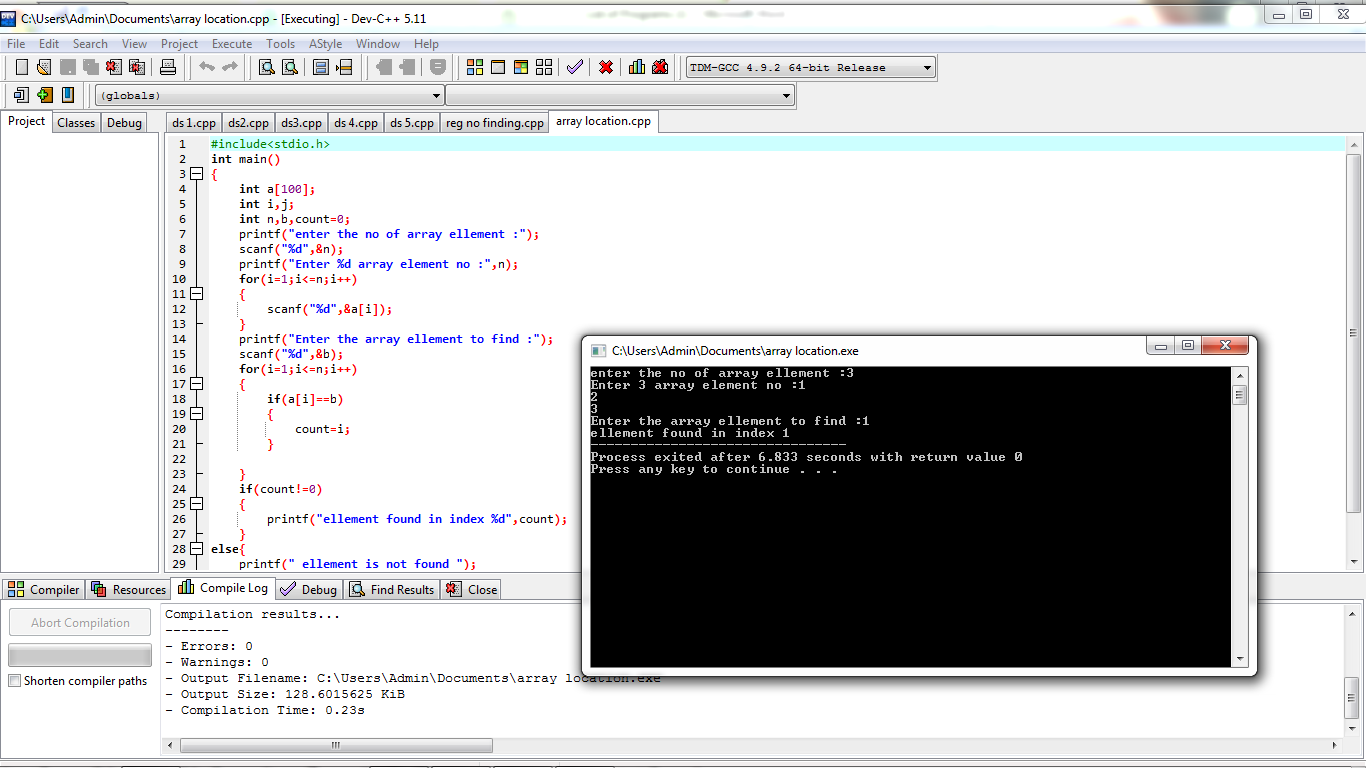
1. **Merging of list**



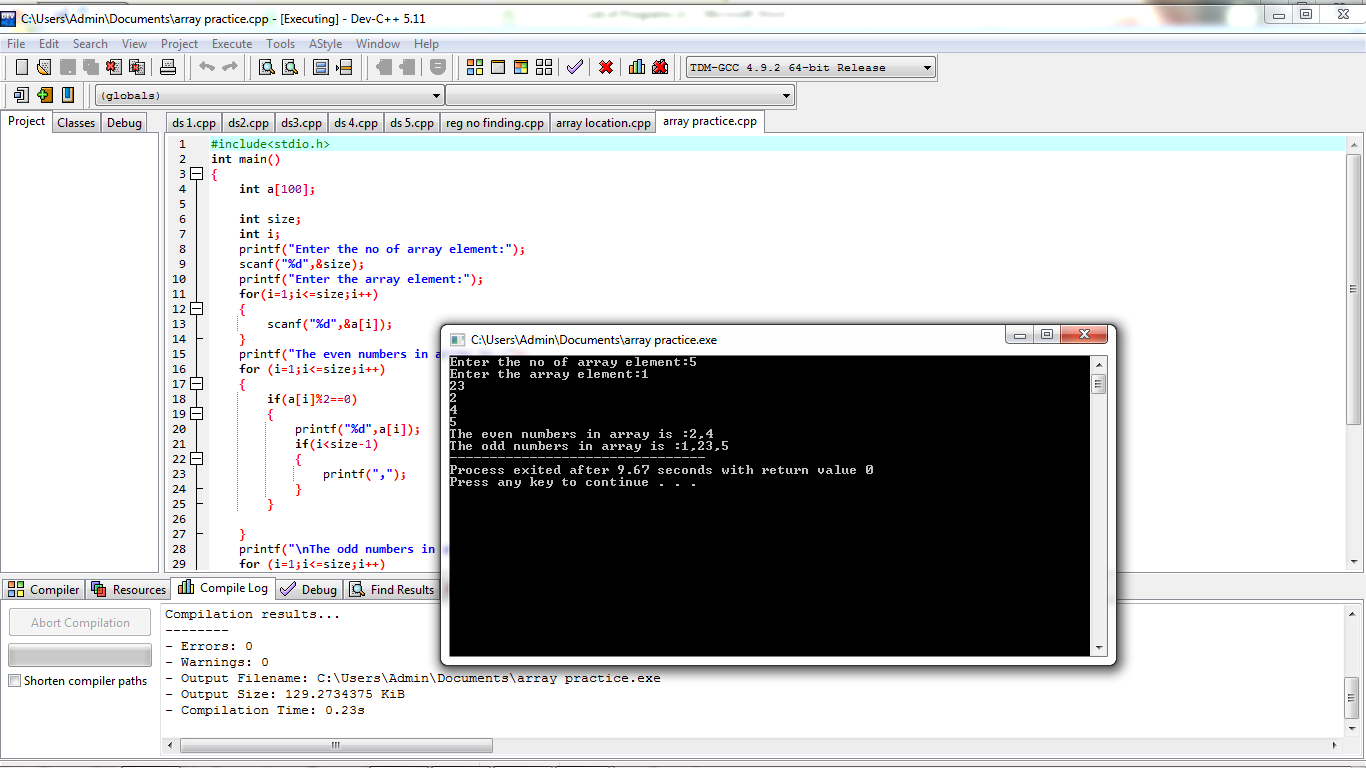
1. **Given array of reg nos need to search for particular reg no**



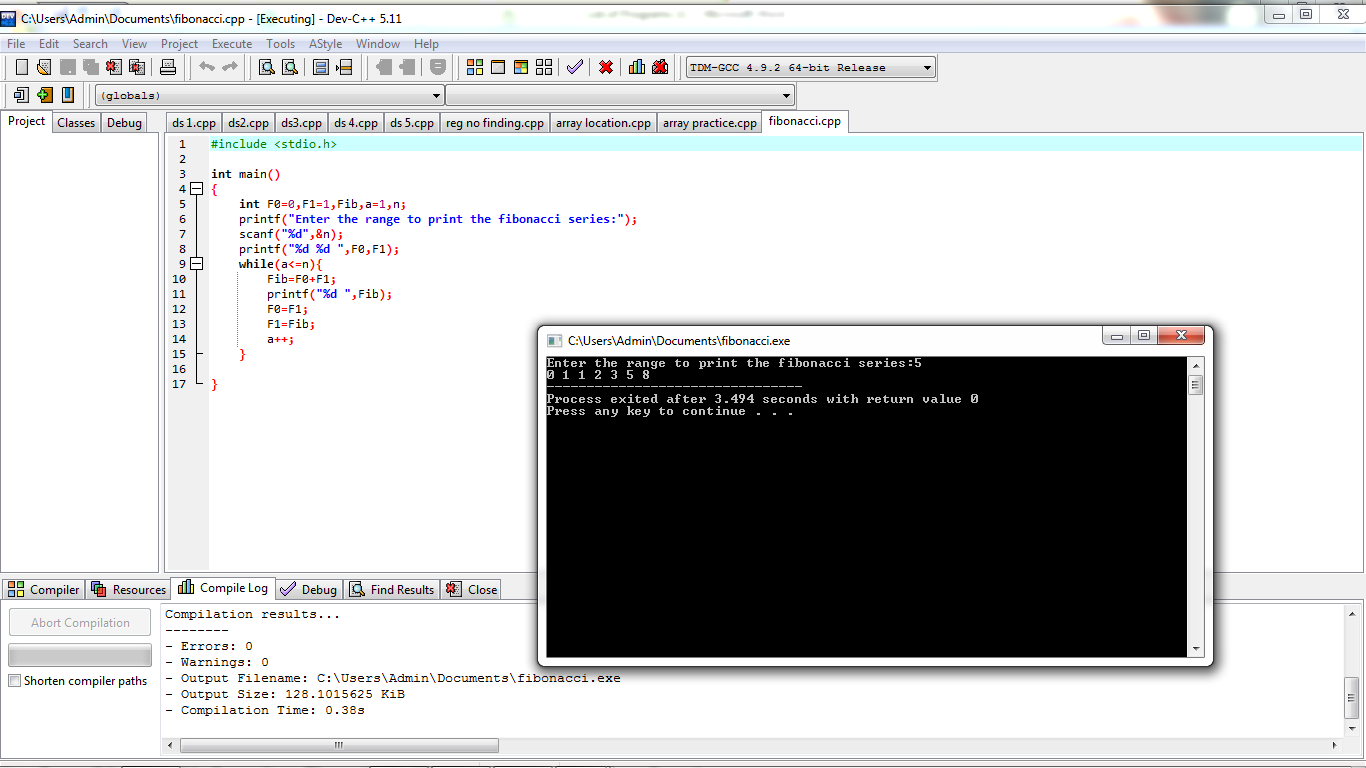
1. **Identify location of element in given array**



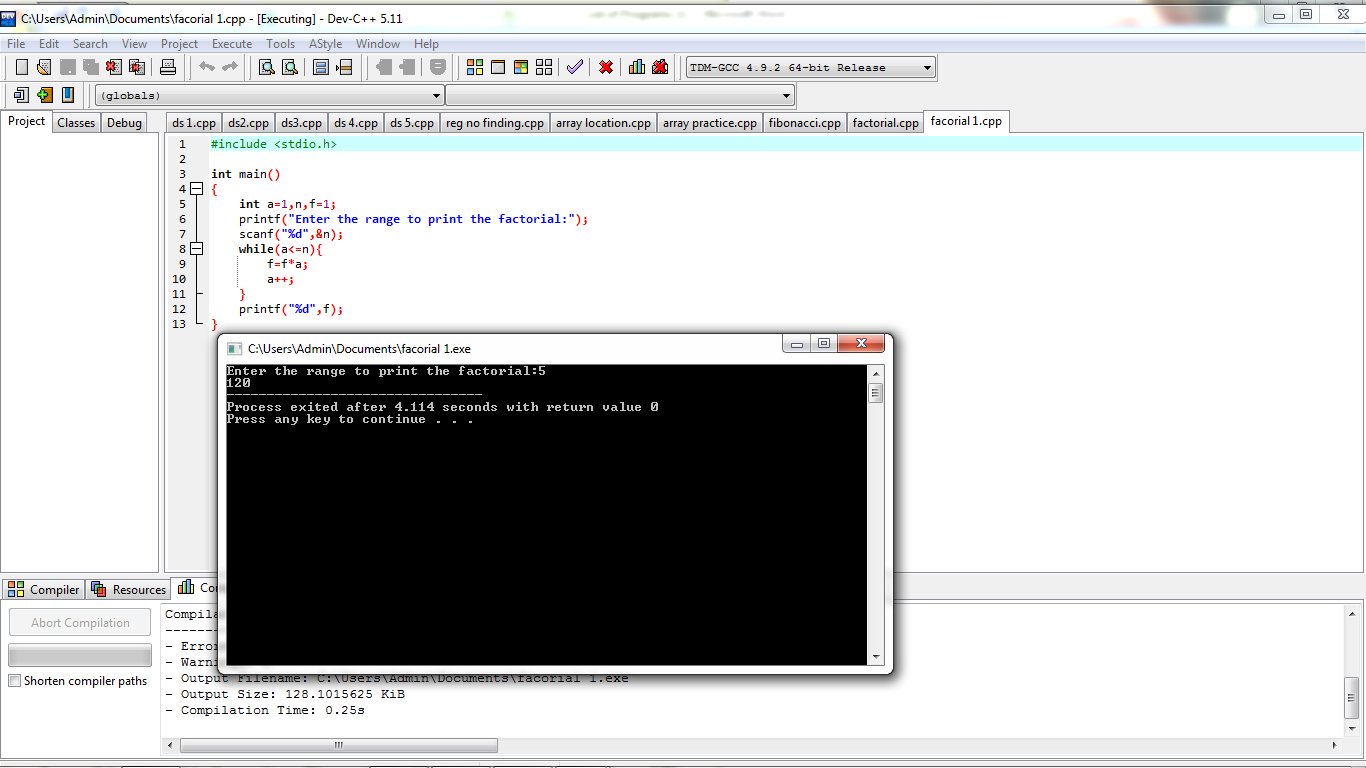
1. **Given array print odd and even values**



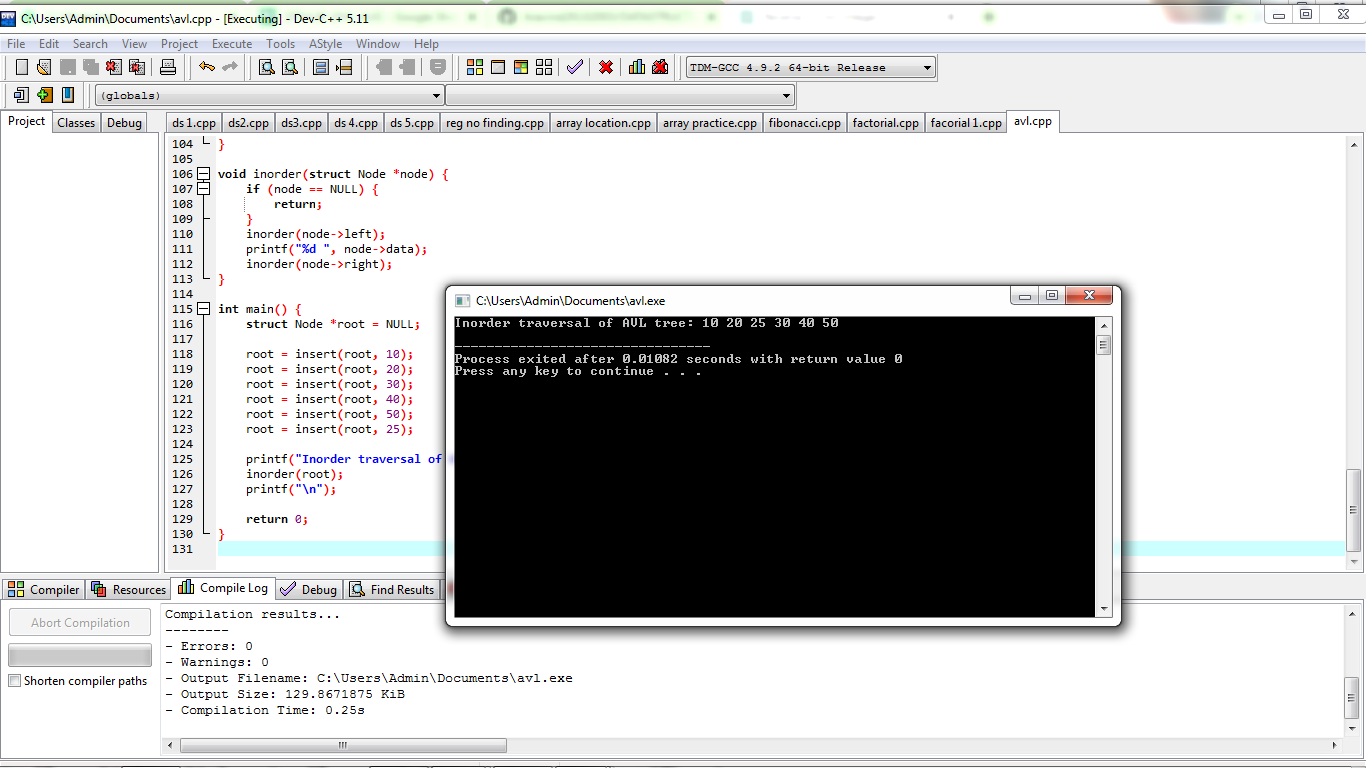
**9.sum of Fibonacci Series**



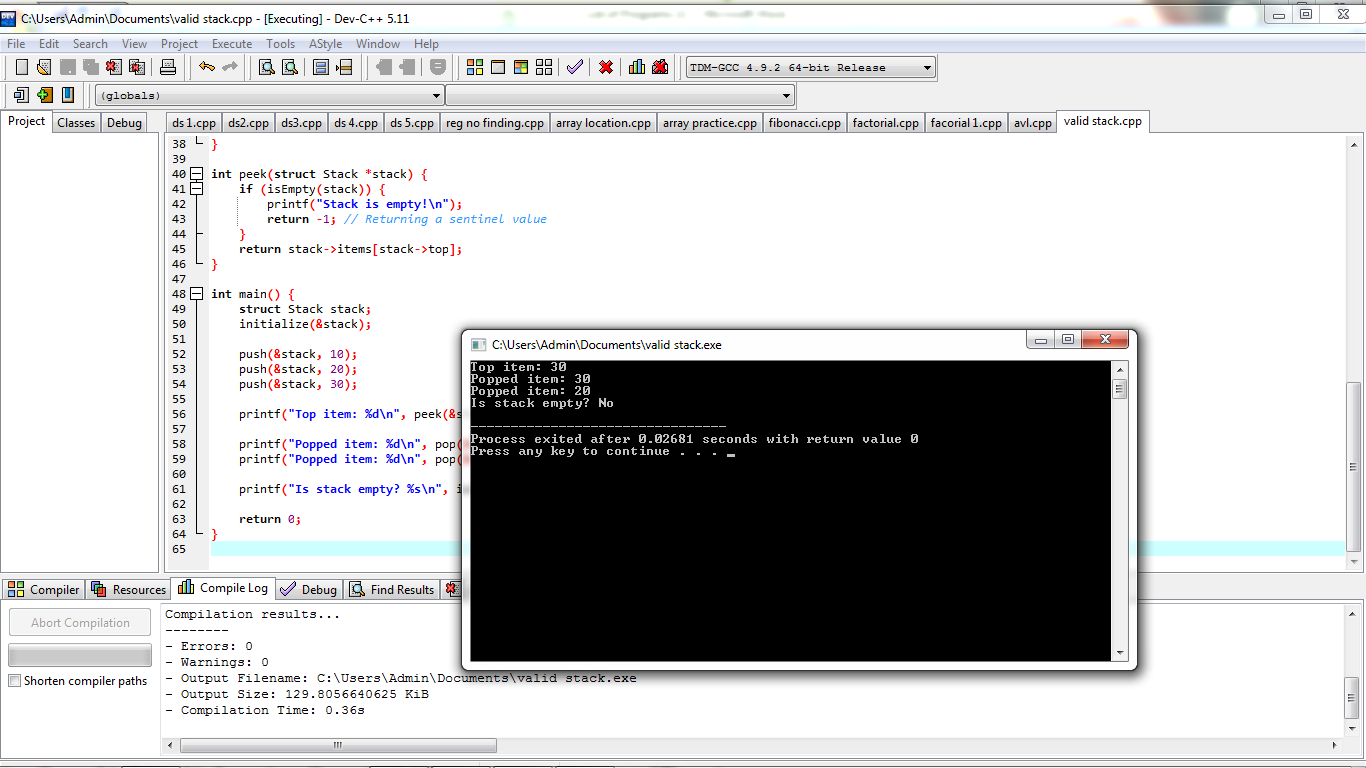
**10.Finding factorial of a number**



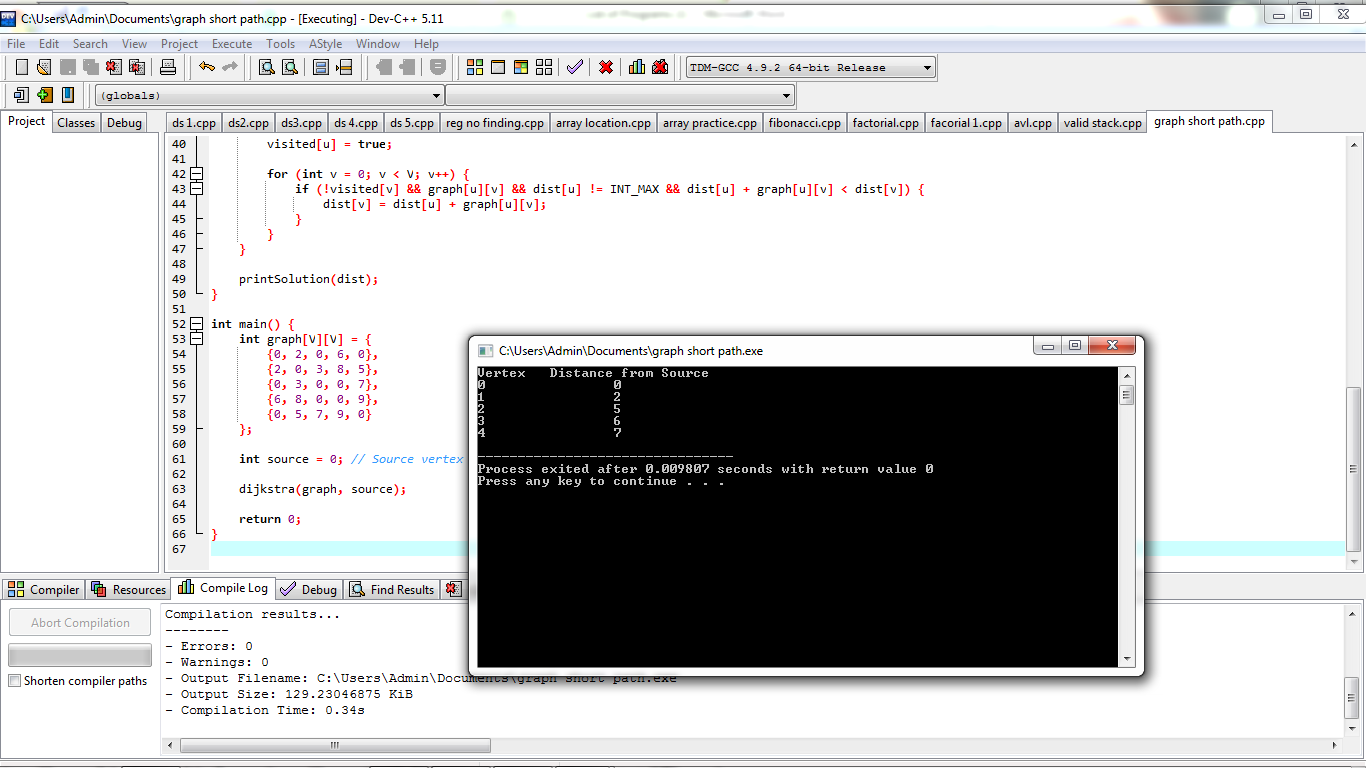
**11. AVL tree**

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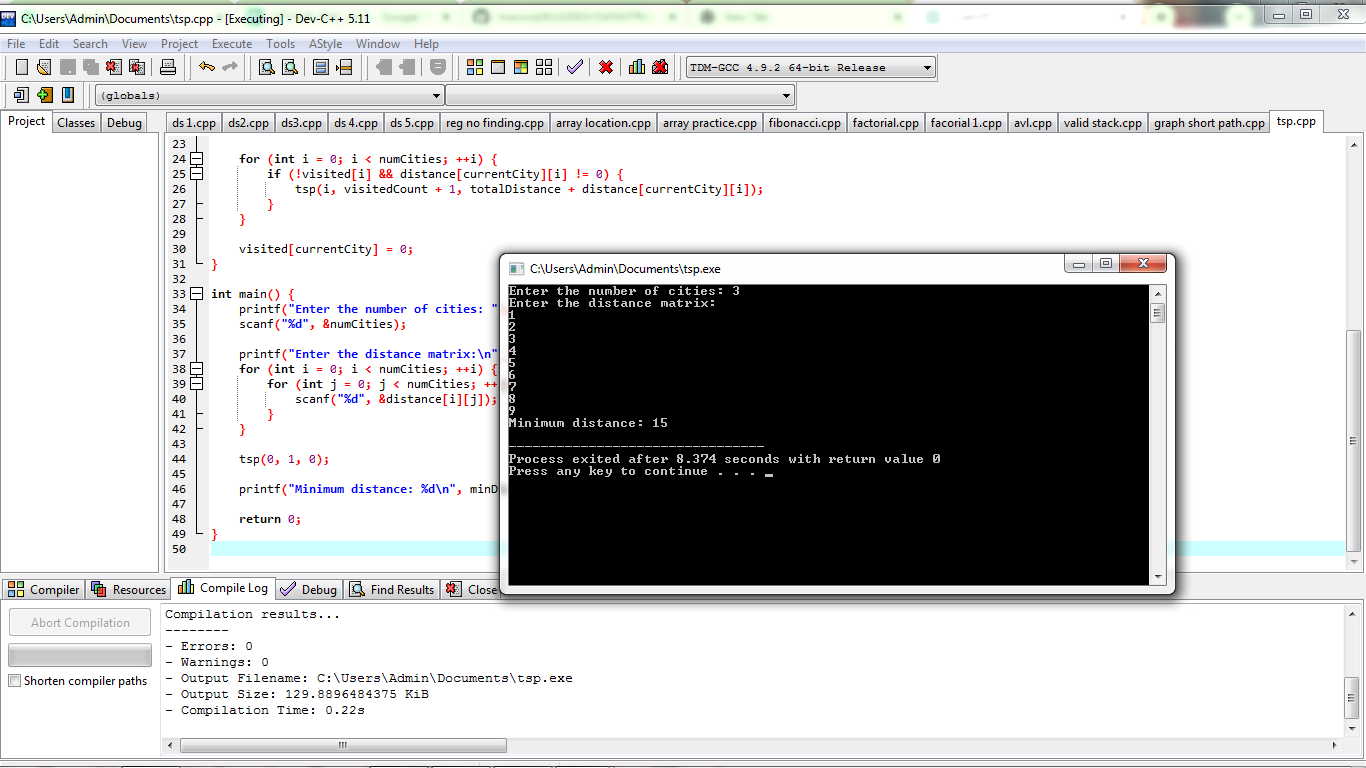
**12. Valid stack**

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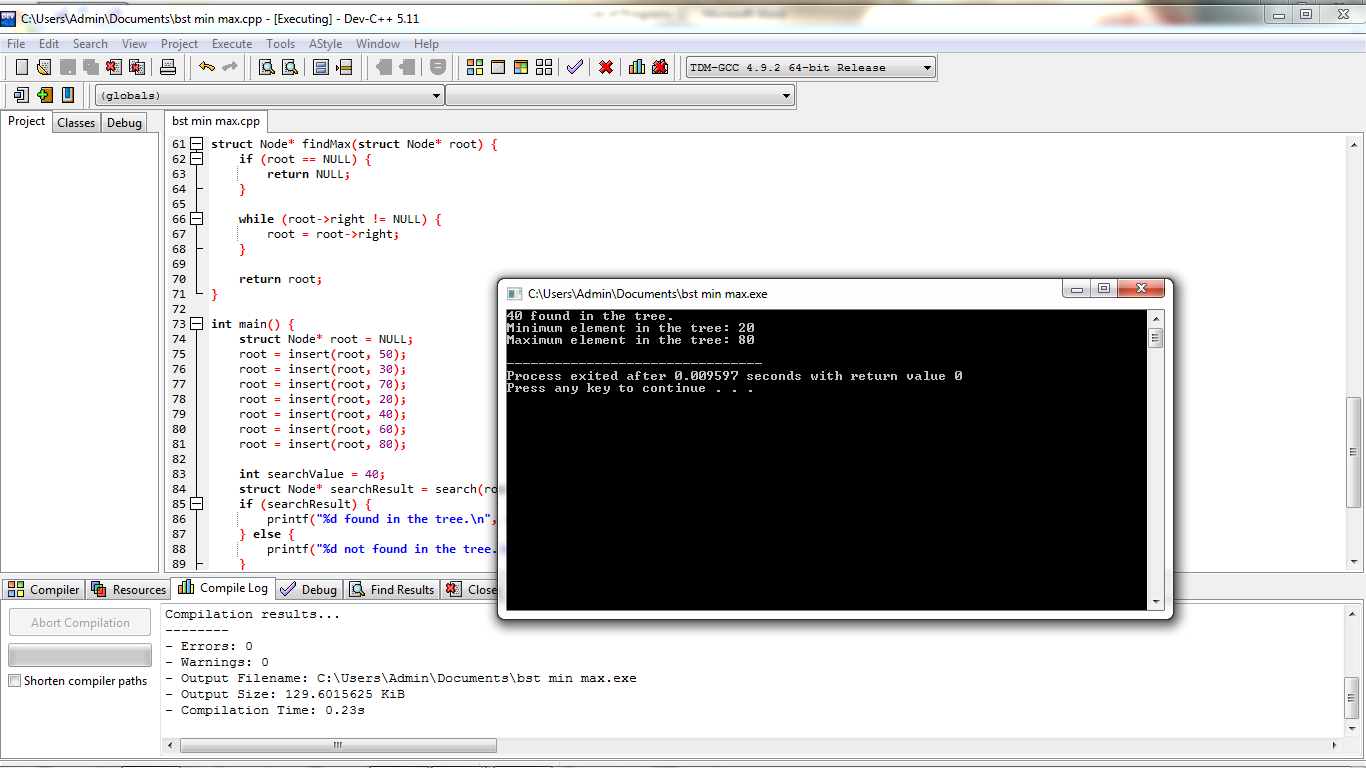
**13. Graph - shortest path**

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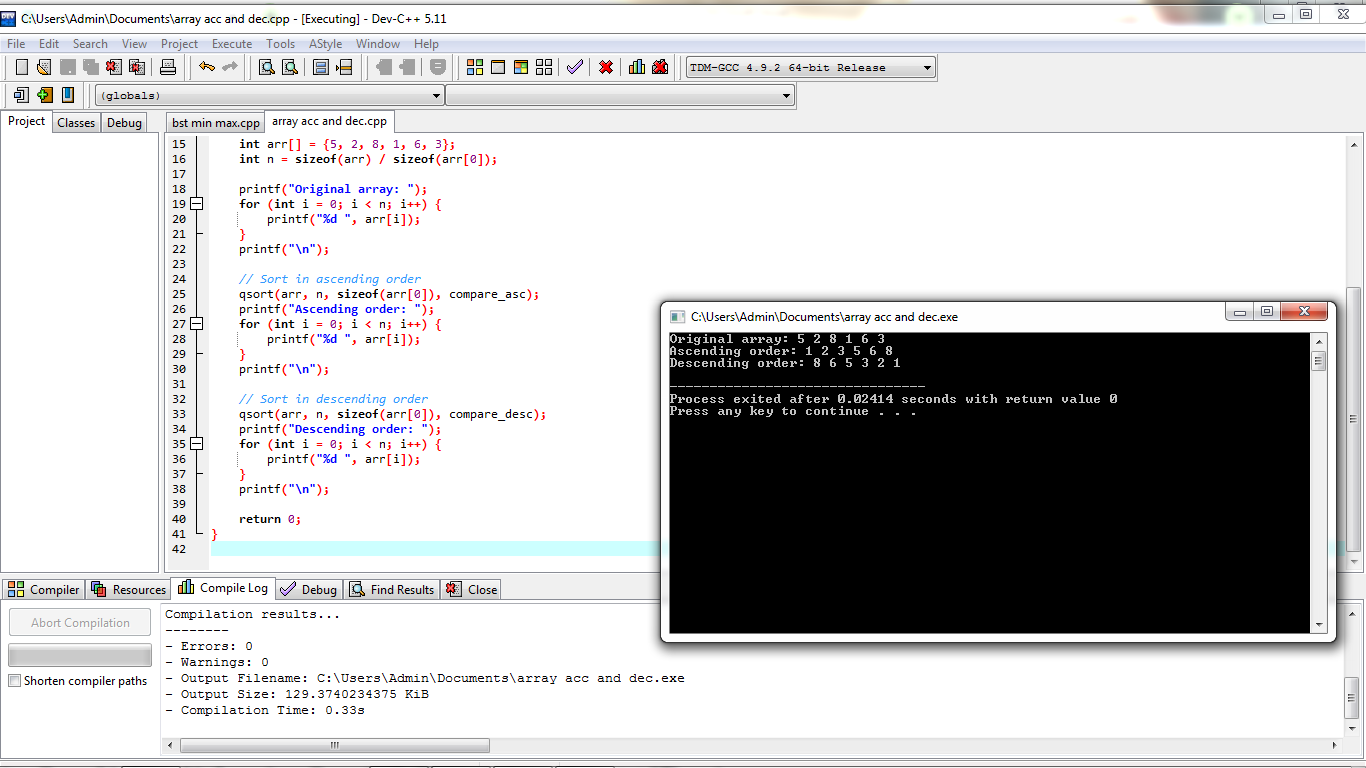
**14. Traveling Salesman Problem**

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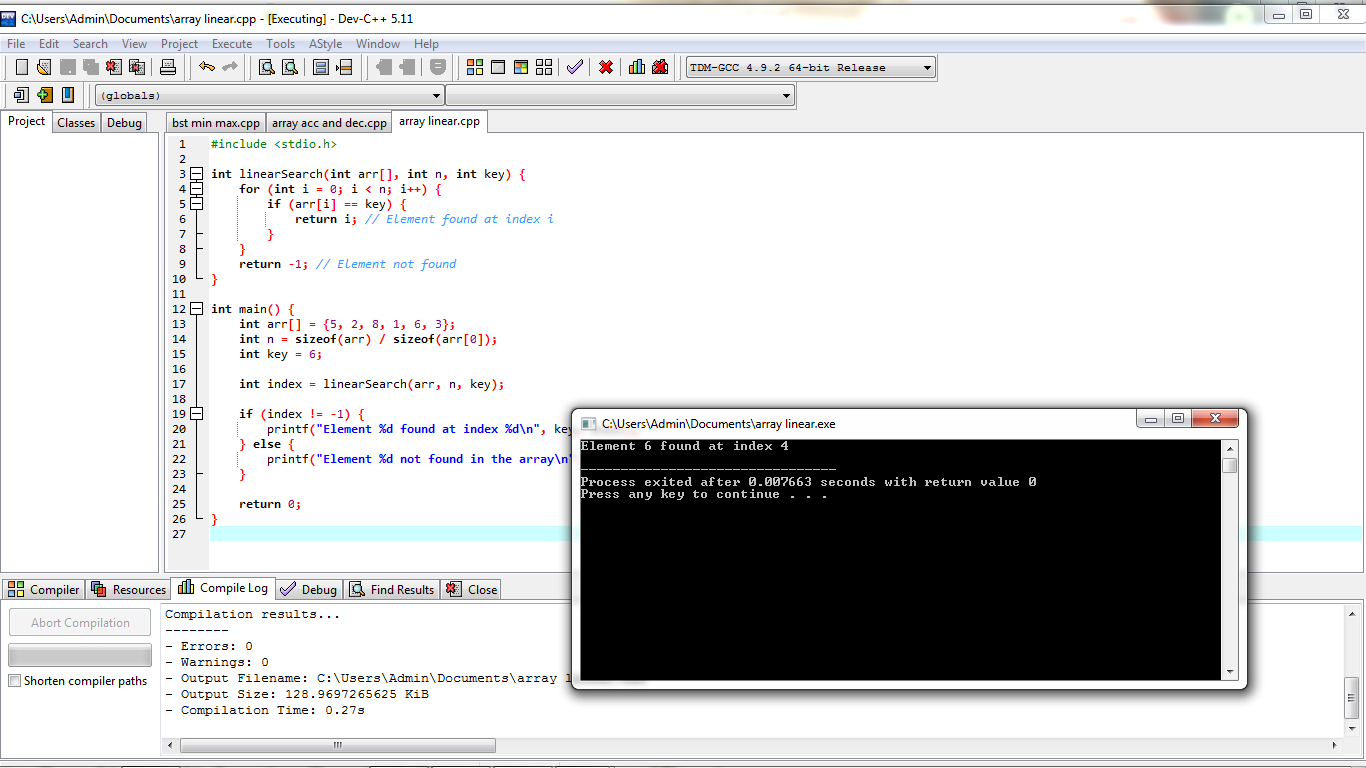
**15.! Binary search tree - search for a element, min element and Max element**

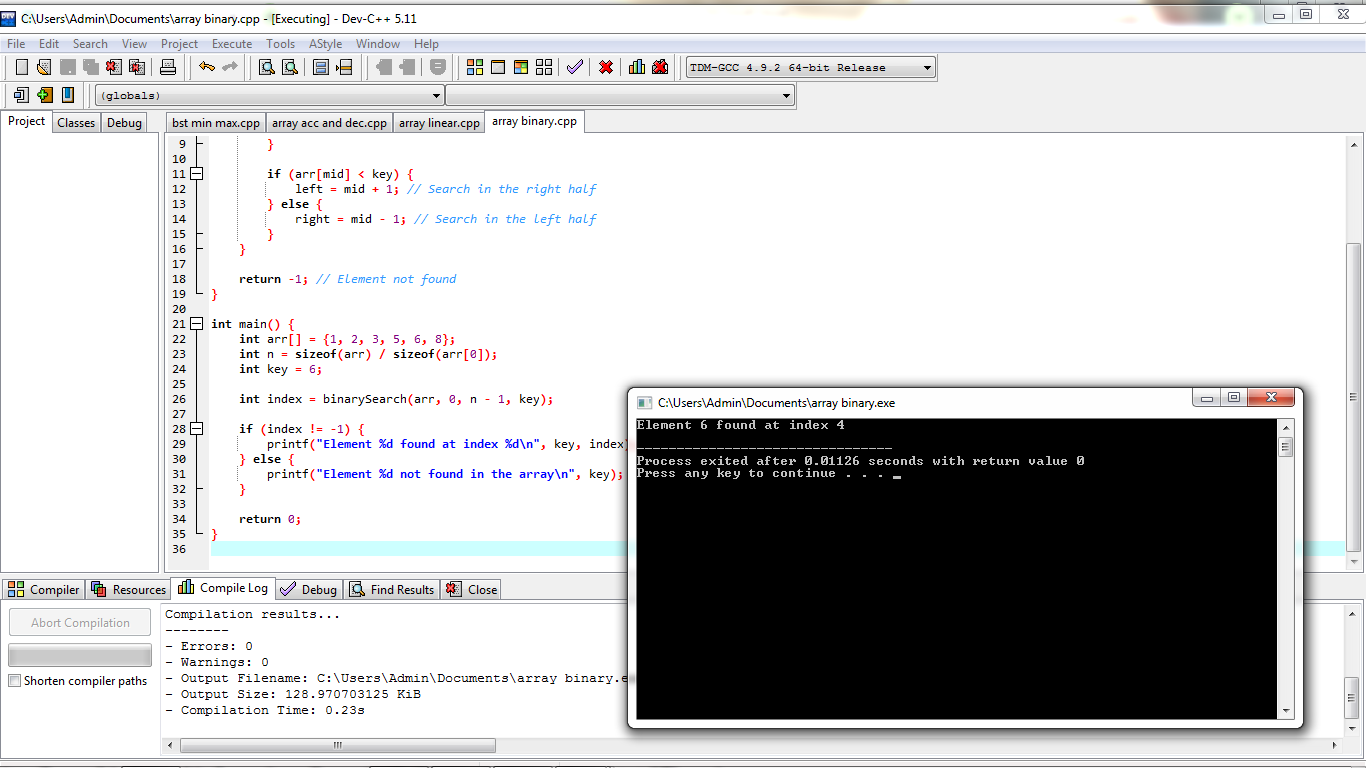
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**16. Array sort - ascending and descending**

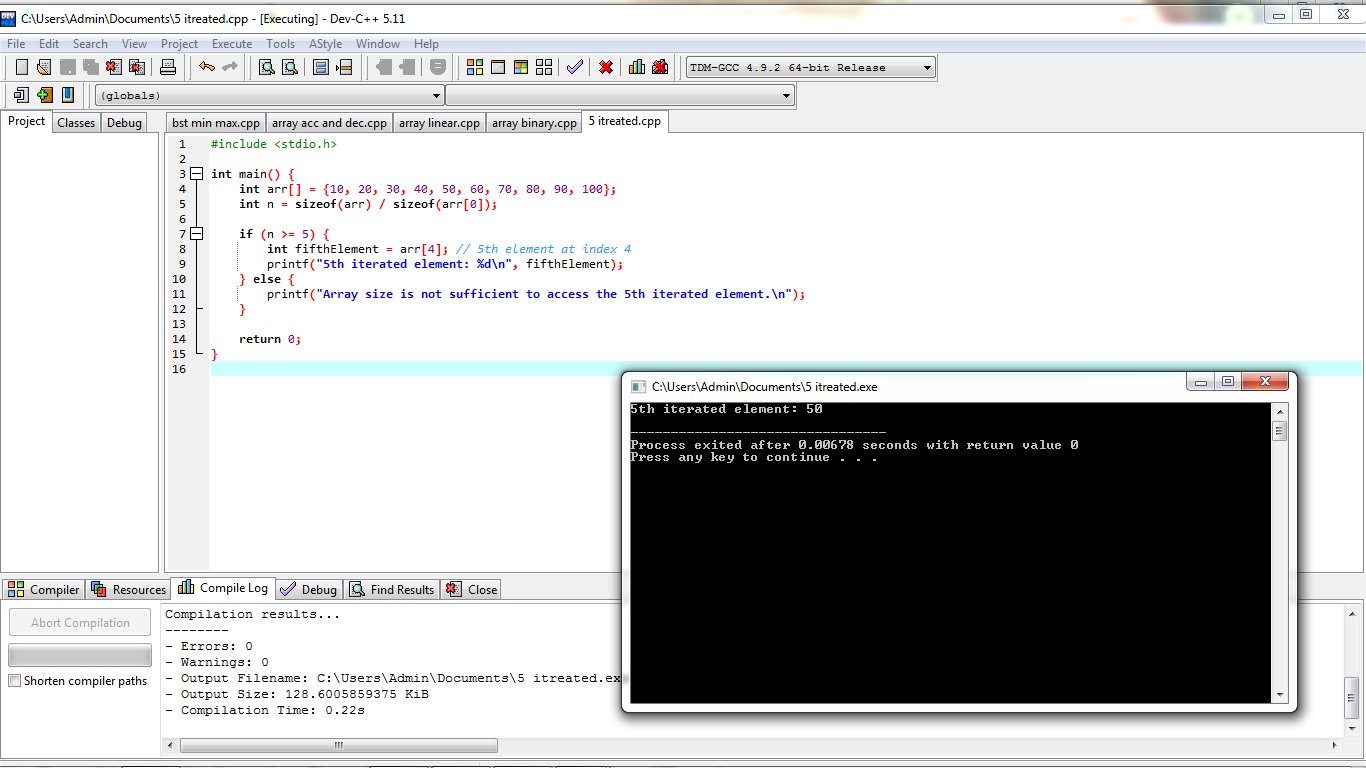
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**17 Array search - linear and binary**

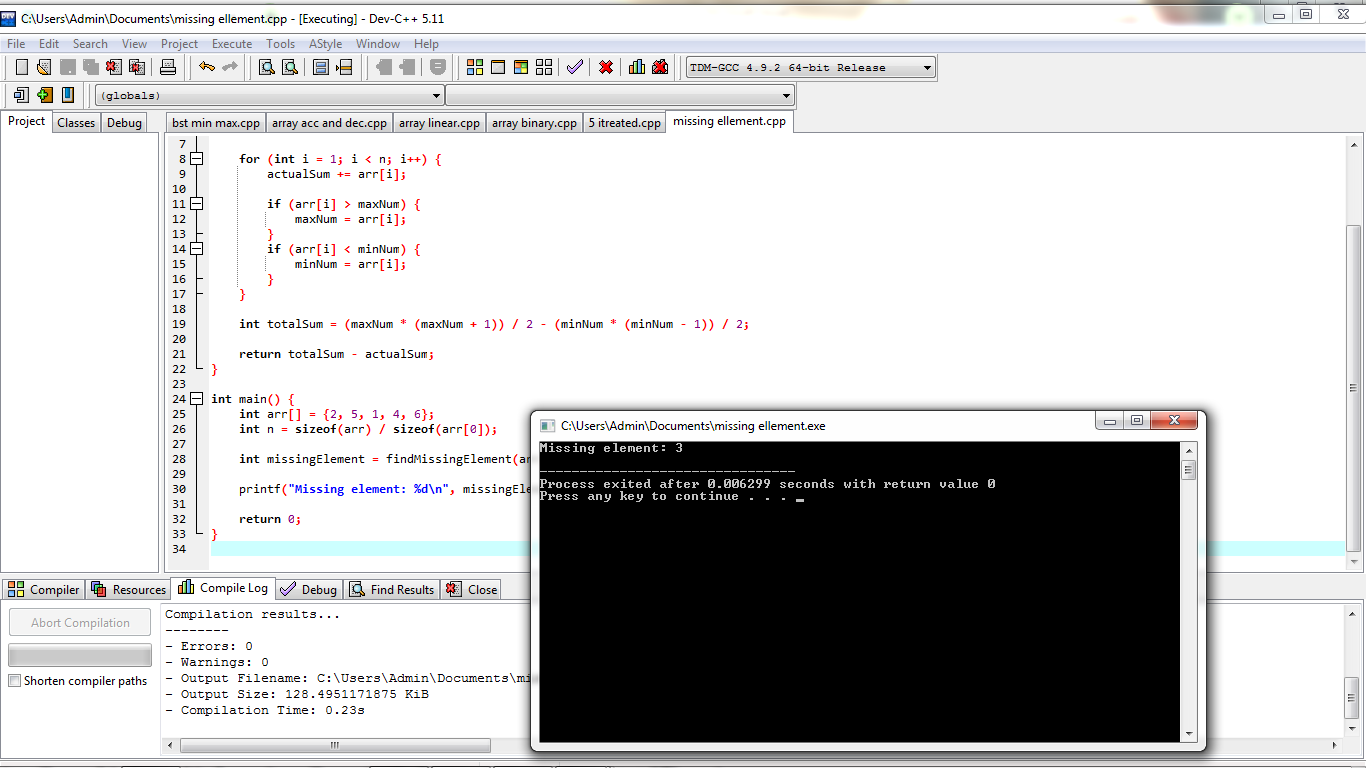
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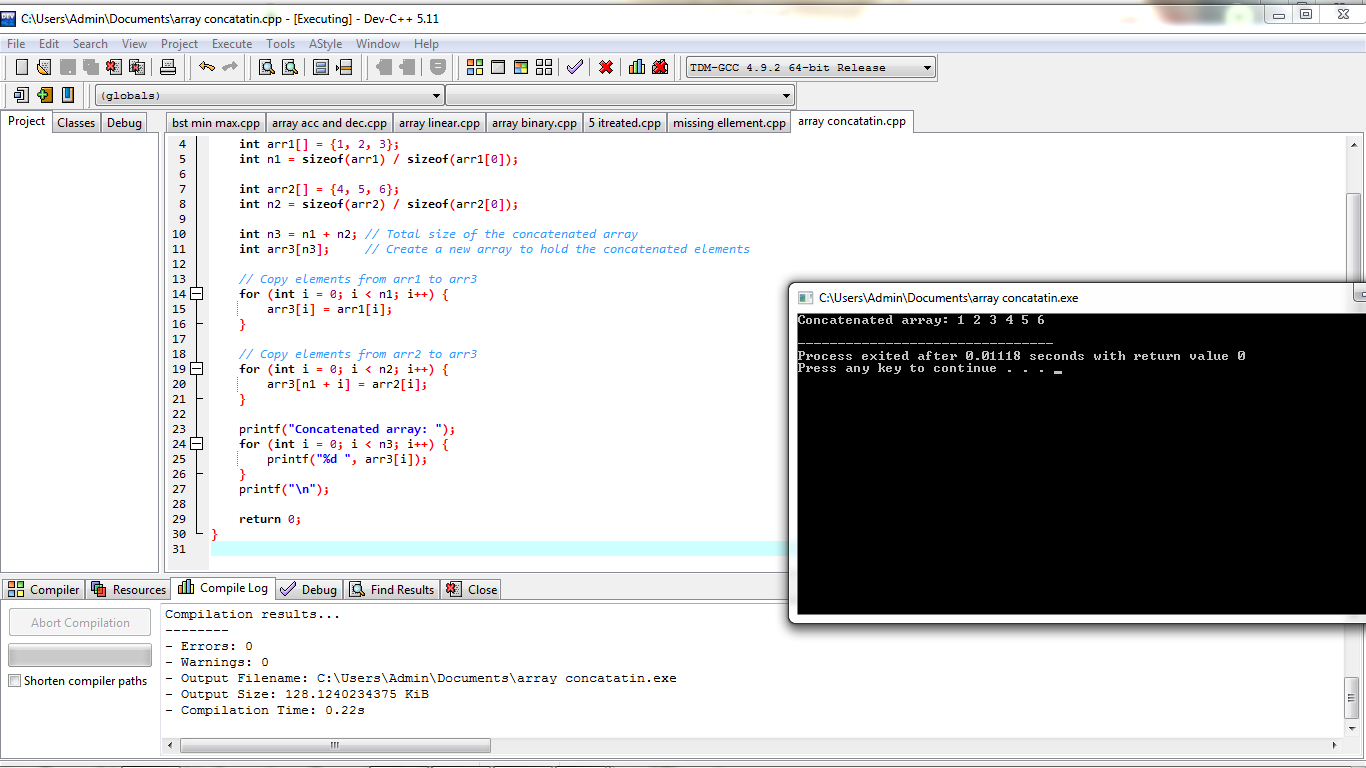
**18. given set of Array elements - display 5th iterated element**

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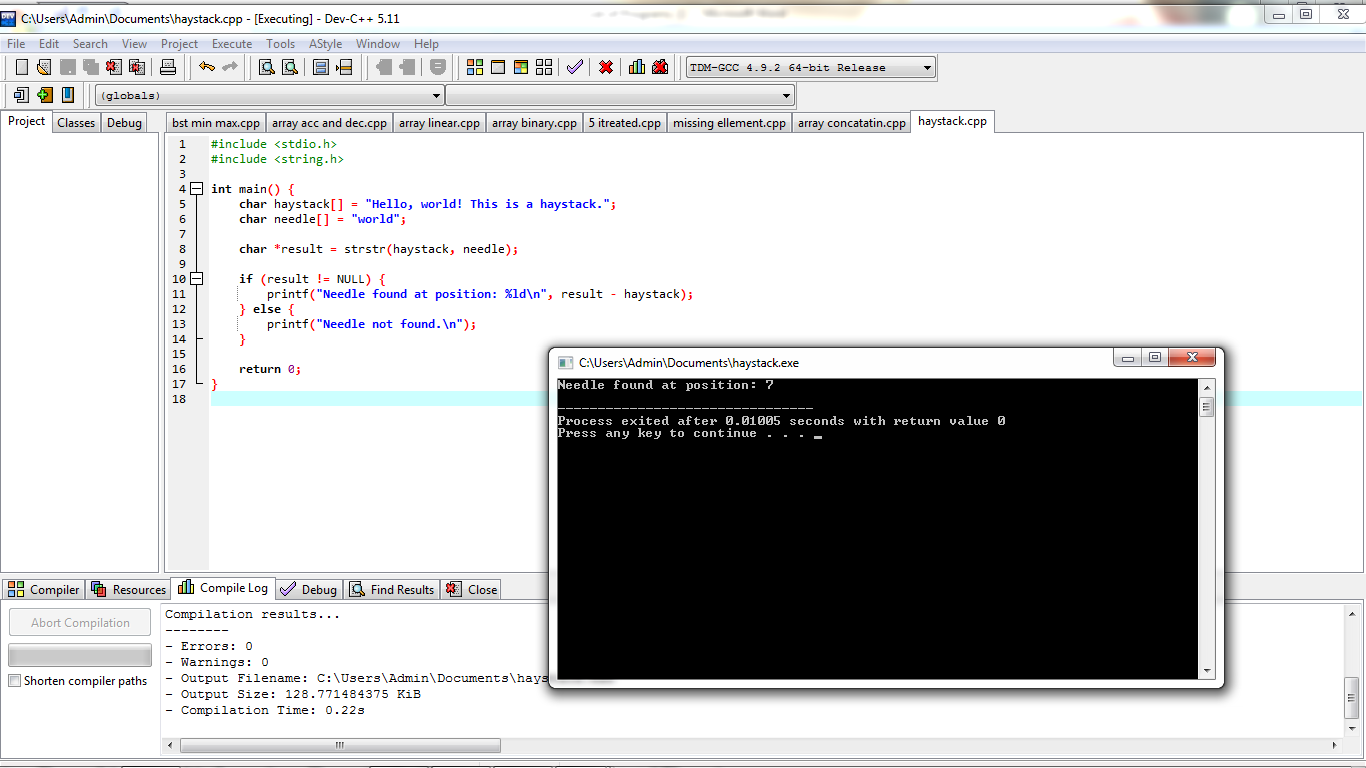
**19. Given unsorted array - Display missing element**

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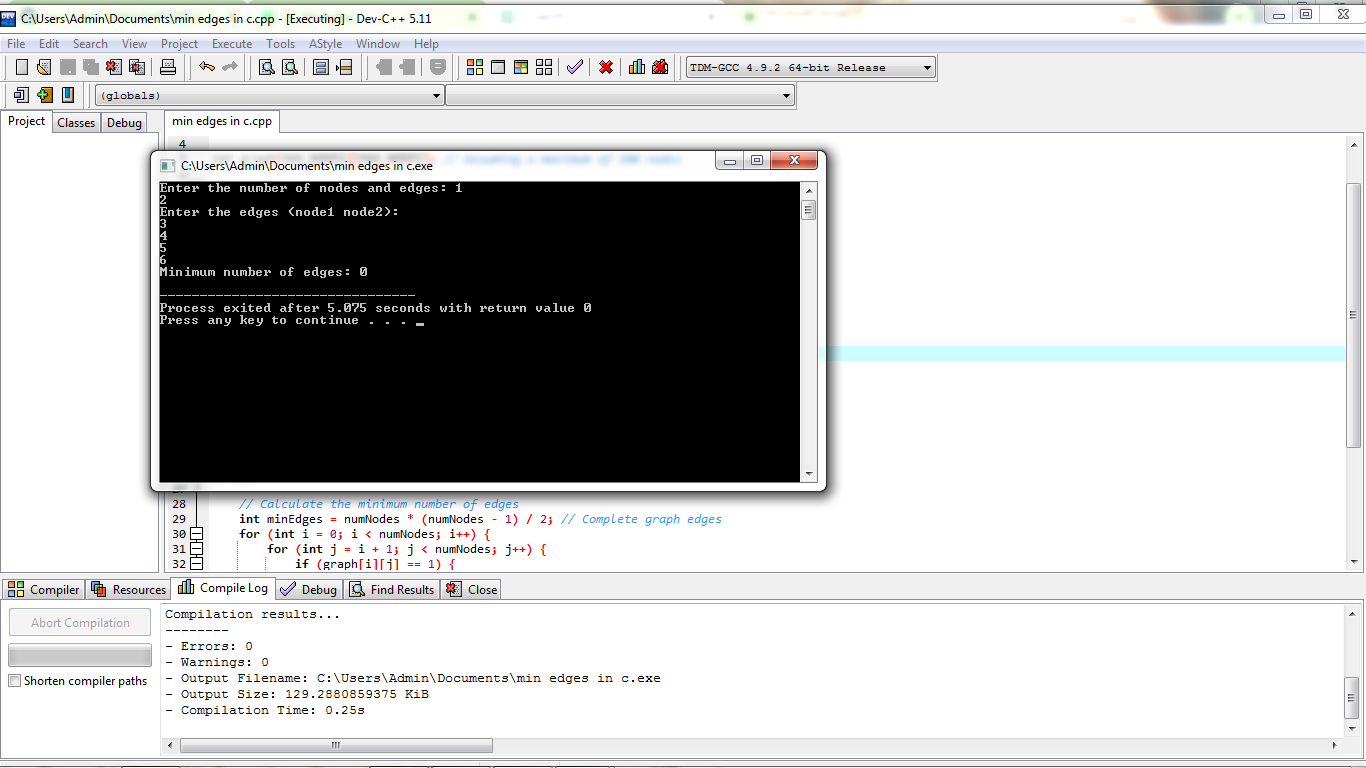
**20. Array concatenation**

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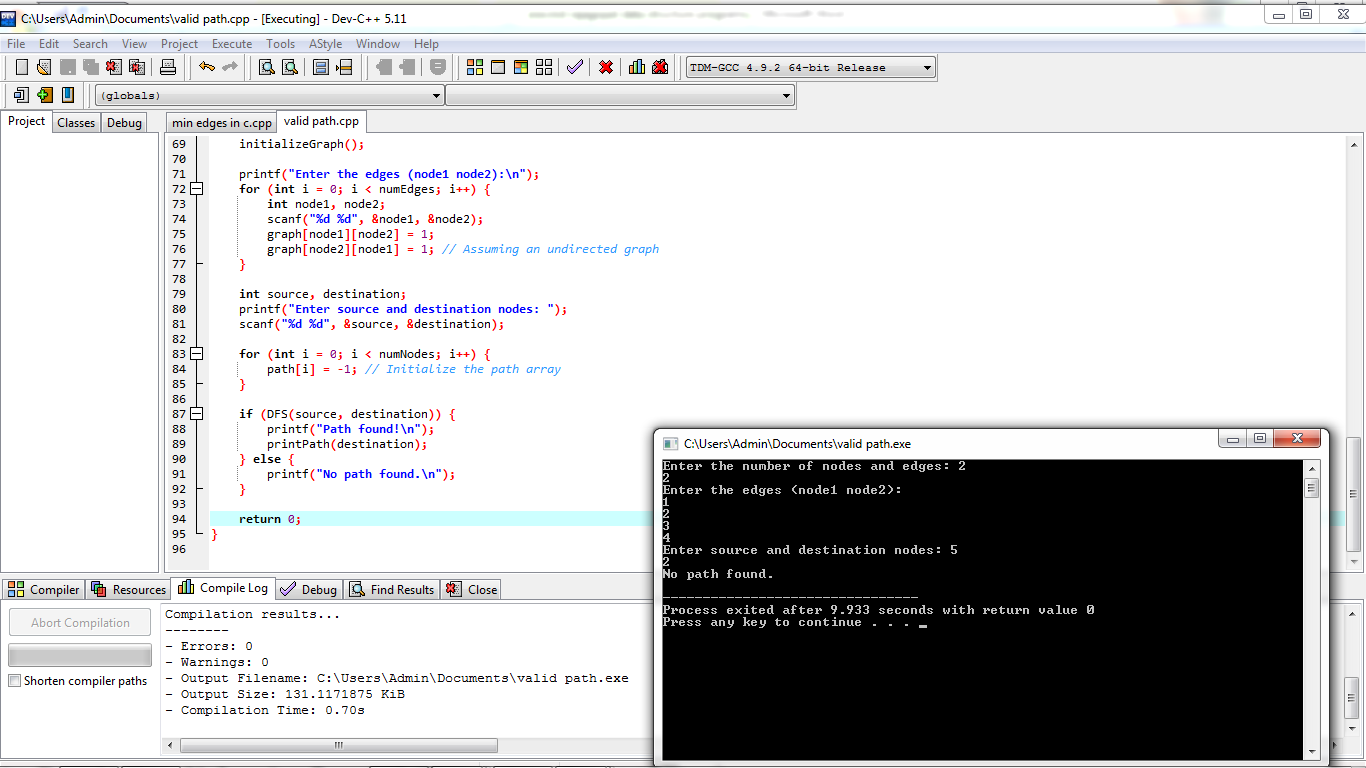
**21. Haystack**

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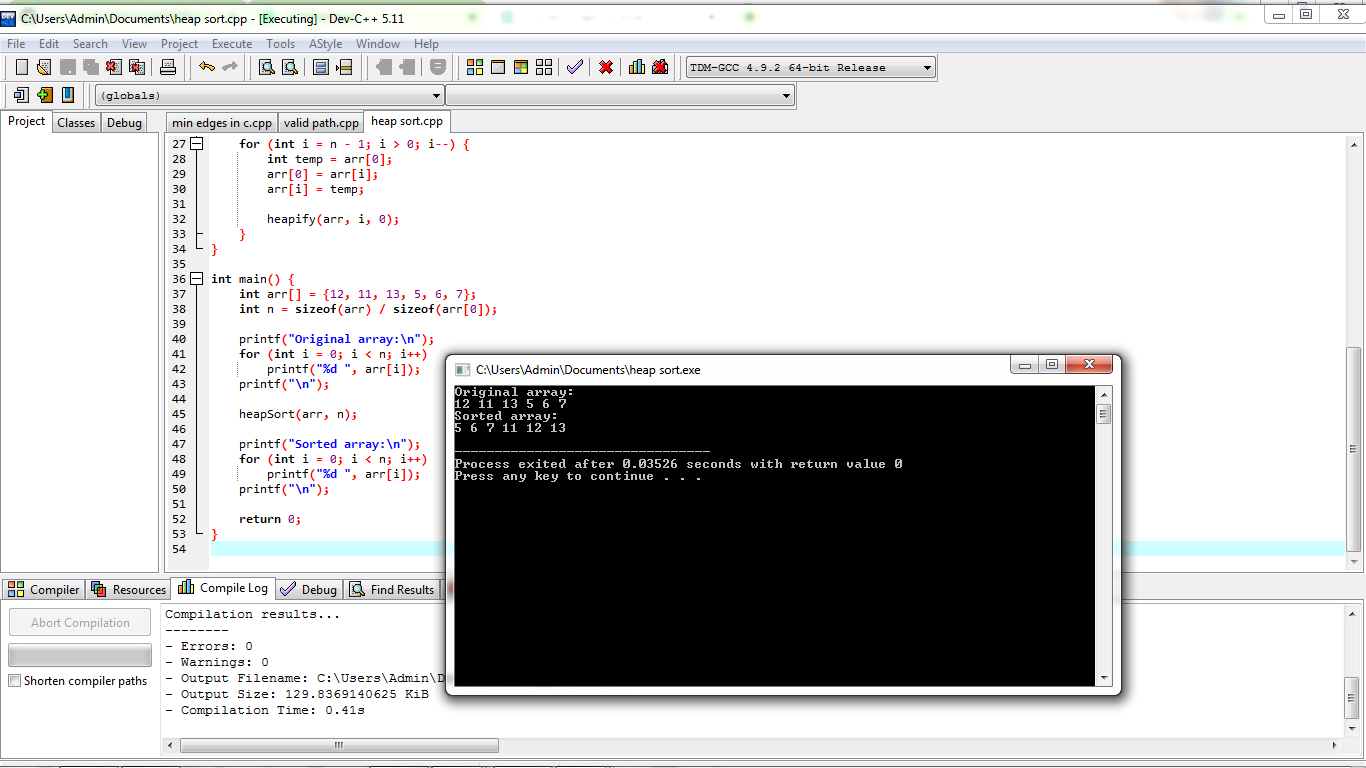
**22. Given Graph convert to array and print minimum edges**

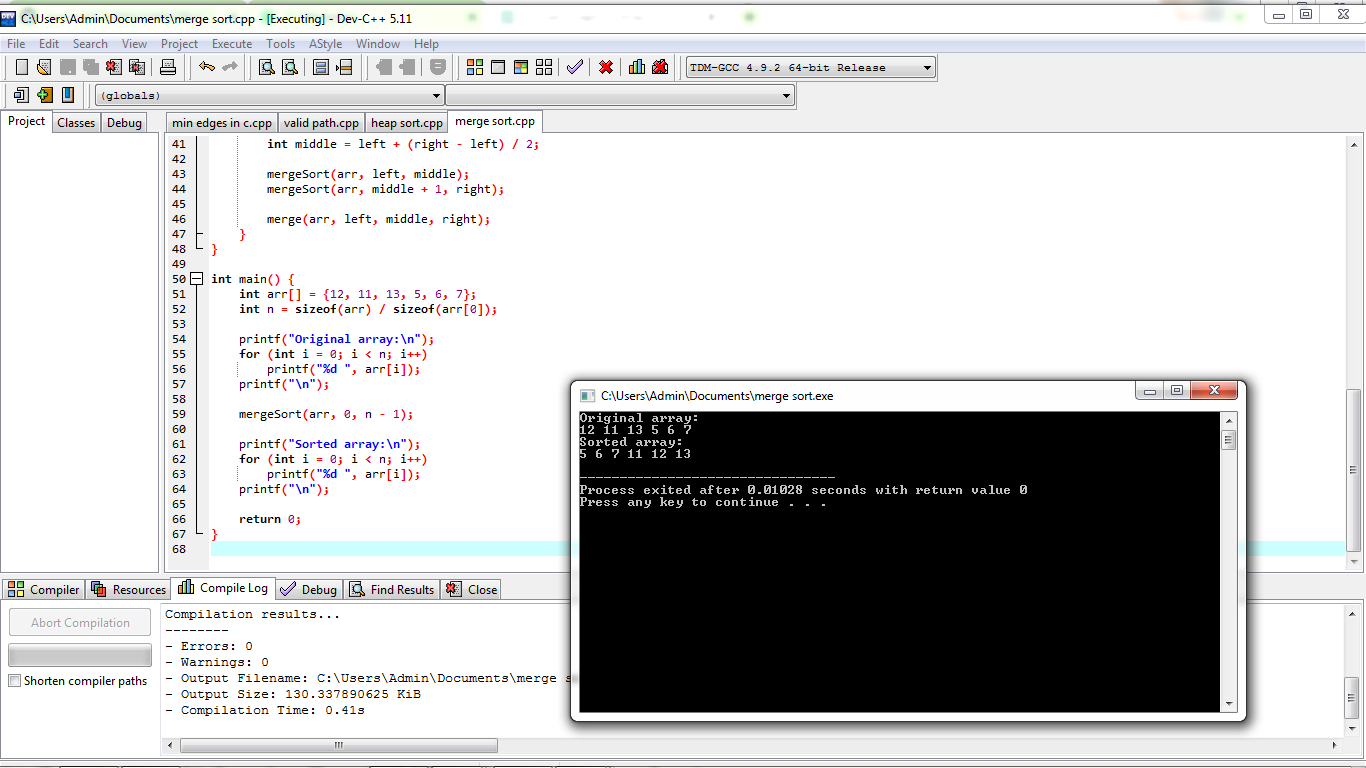
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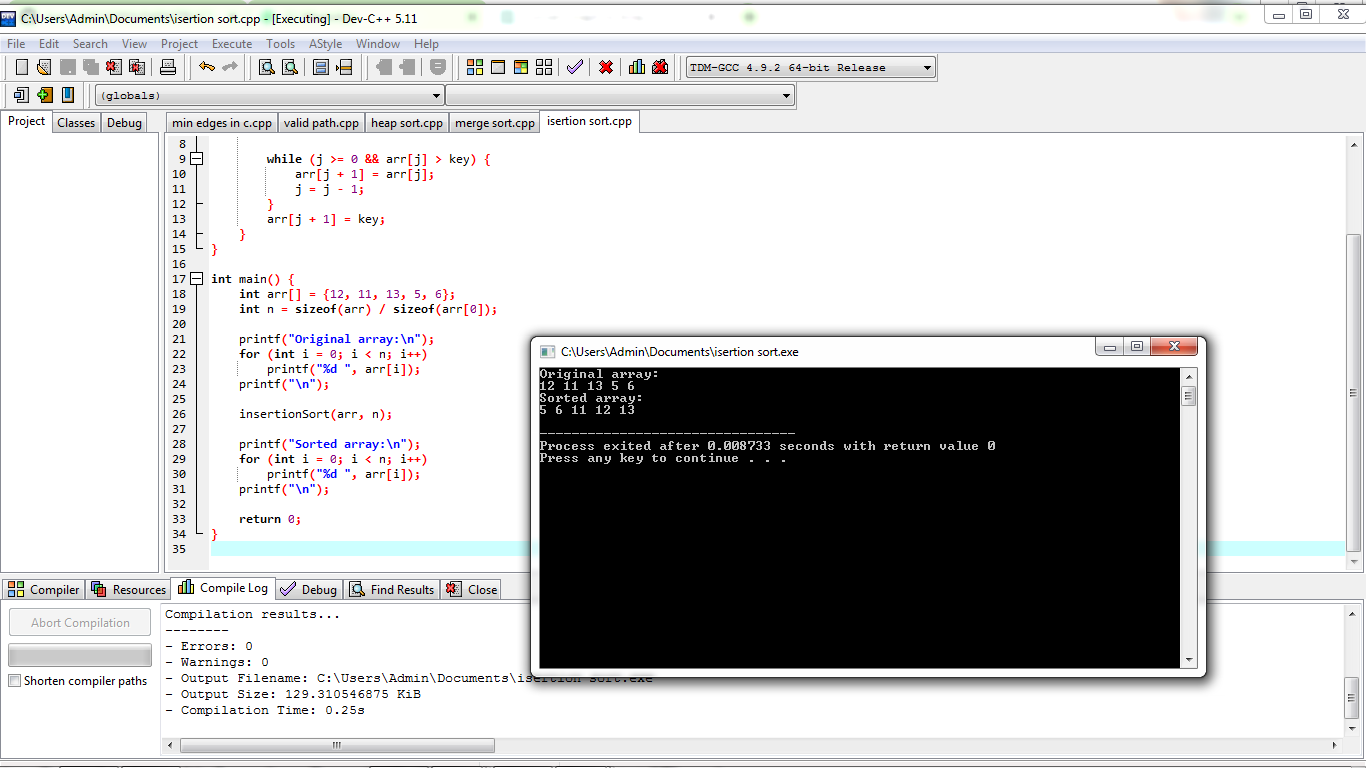
**23. Given Graph - Print valid path**

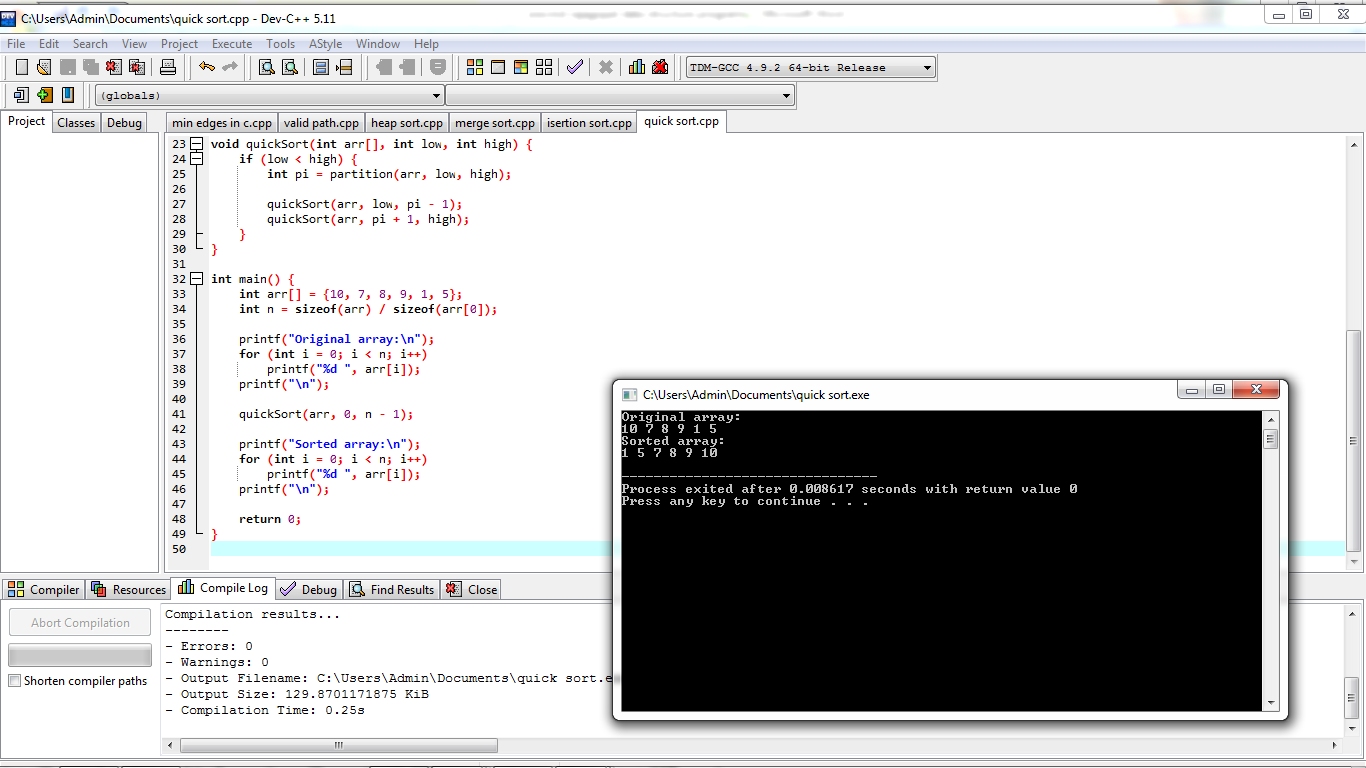
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**24, heap ,mege, insertion and quick sort**

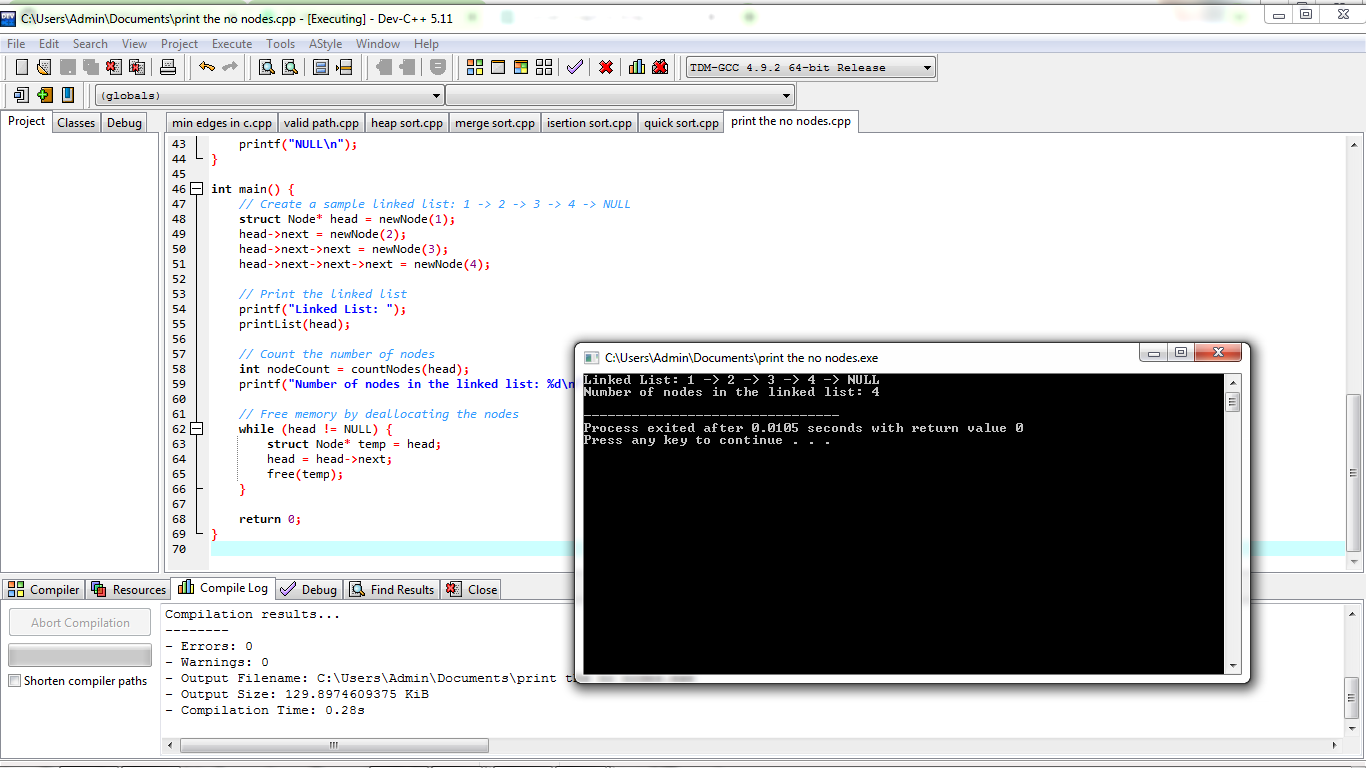
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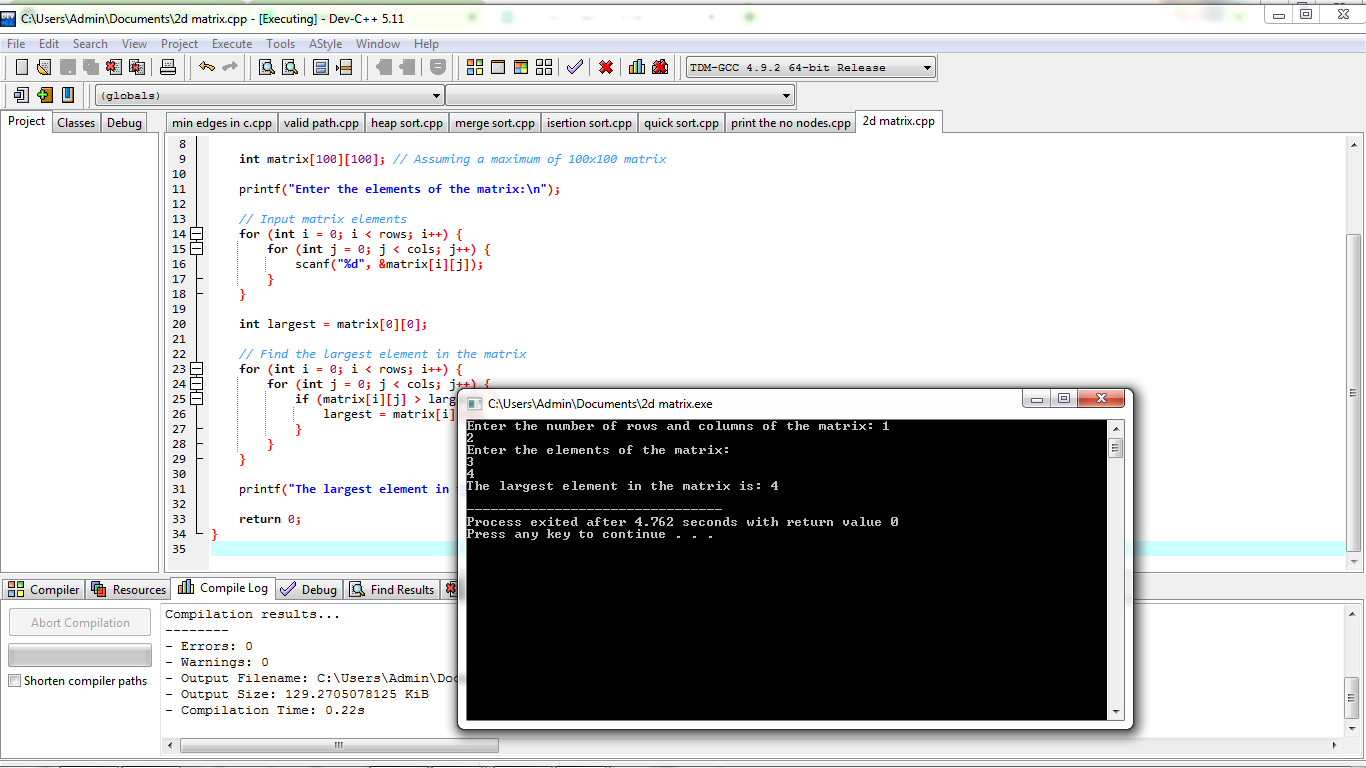
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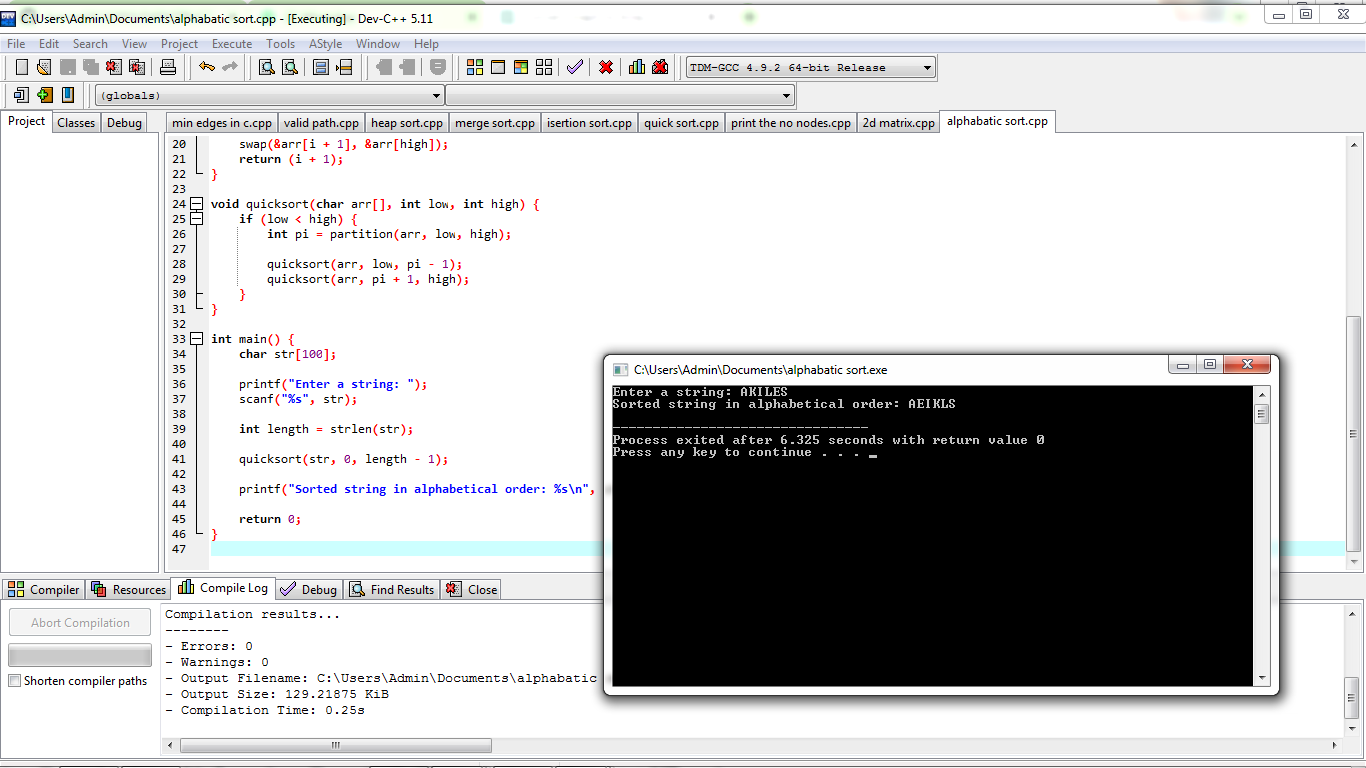
**25. Print no of nodes in the given linked list**

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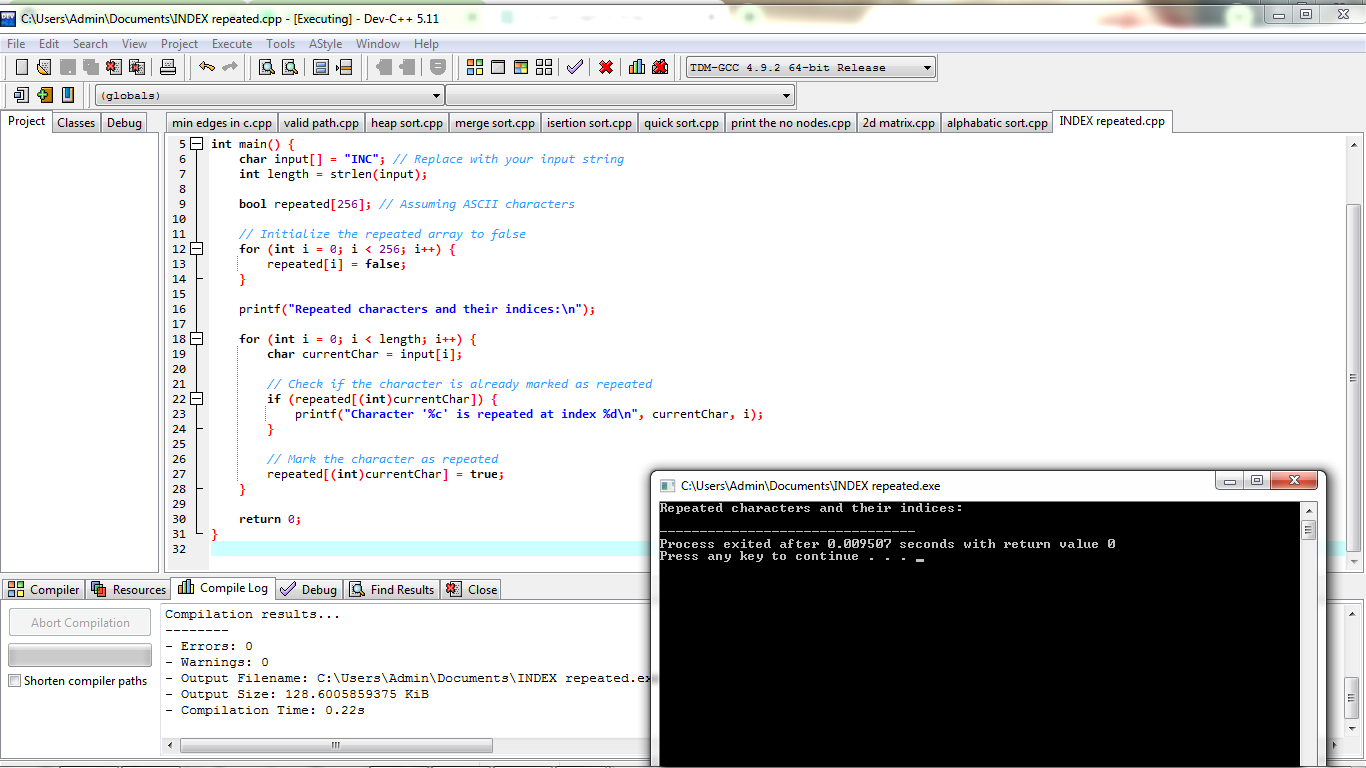
**26. Given 2 D matrix print largest element**

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**27. Given a string - sort in alphabetical order**

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**28. Print the index of repeated characters given in an array**

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