**Lab Manual # 9**

**ME-XXX:Computer Systems and Programming**



## Submitted by:

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**DEPARTMENT OF MECHANICAL ENGINEERING**

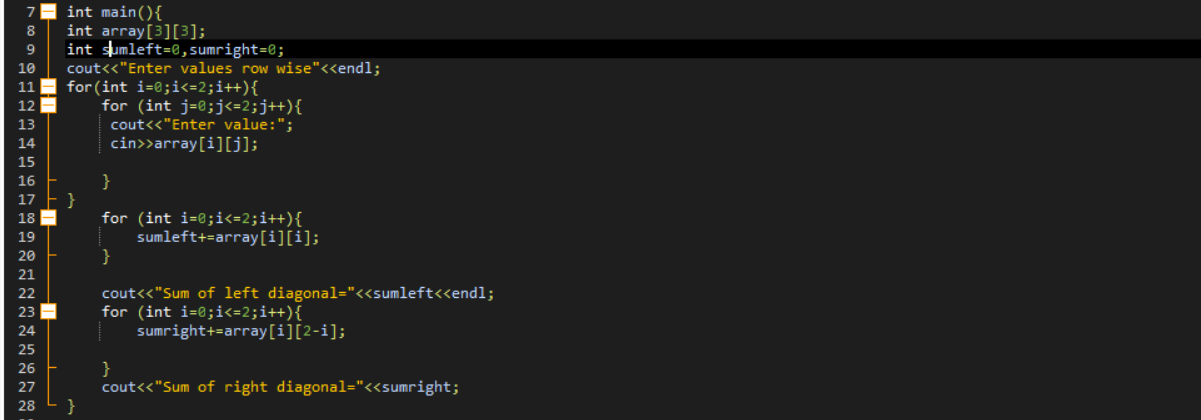
**NATIONAL UNIVERSITY OF SCIENCES AND TECHNOLOGY,H12**

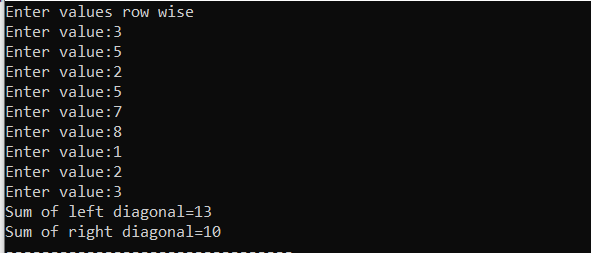
# LAB TASK

## LAB TASK 1:

**Make 2D Array in C++ and print left diagonal and right diagonal sum of a 3x3 matrix.**

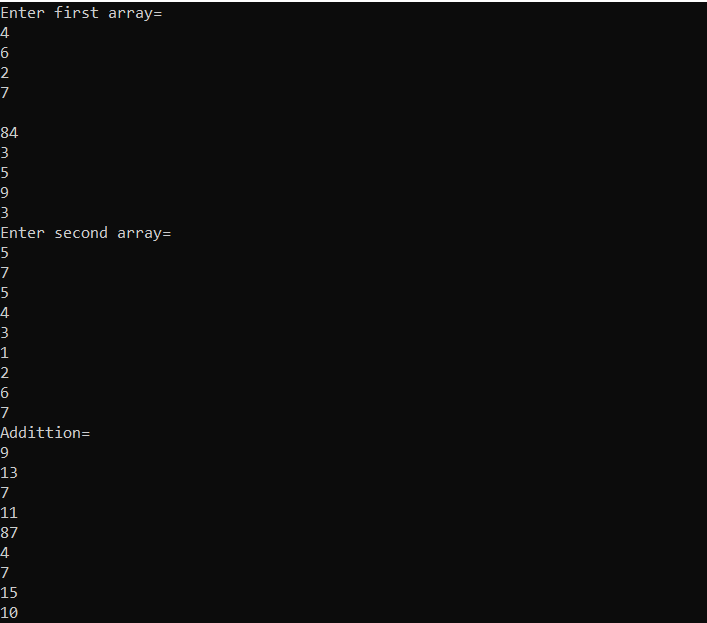
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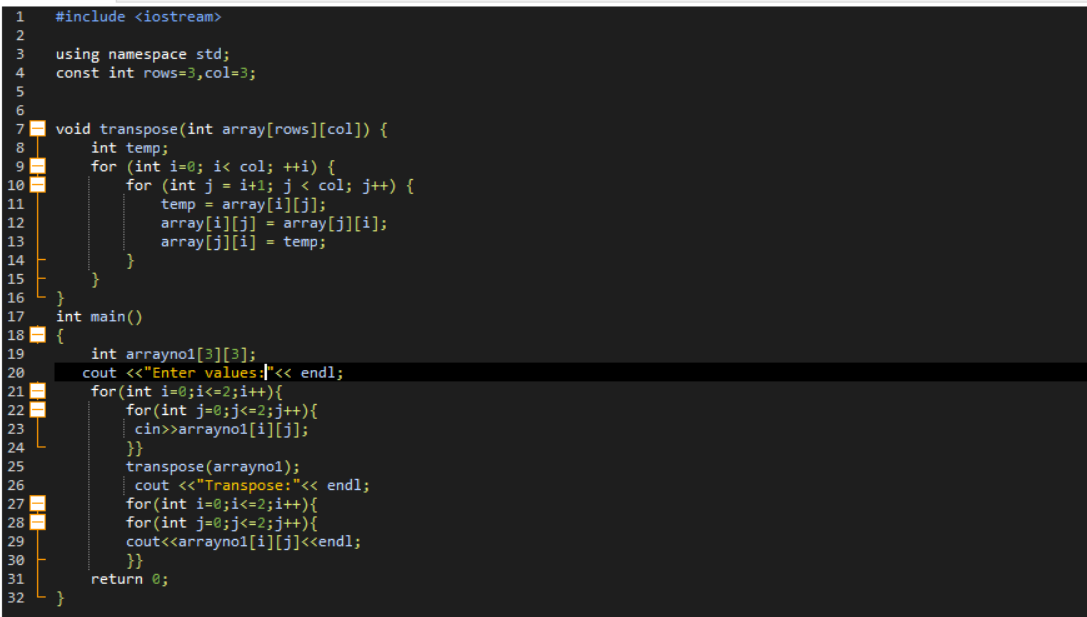
## LAB TASK 2:

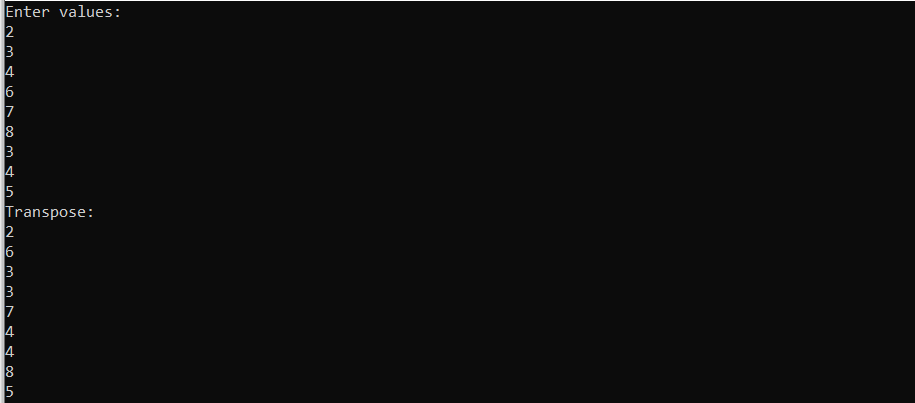
**Write a function to add two 2D arrays of size 3x3.**

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## LAB TASK 3:

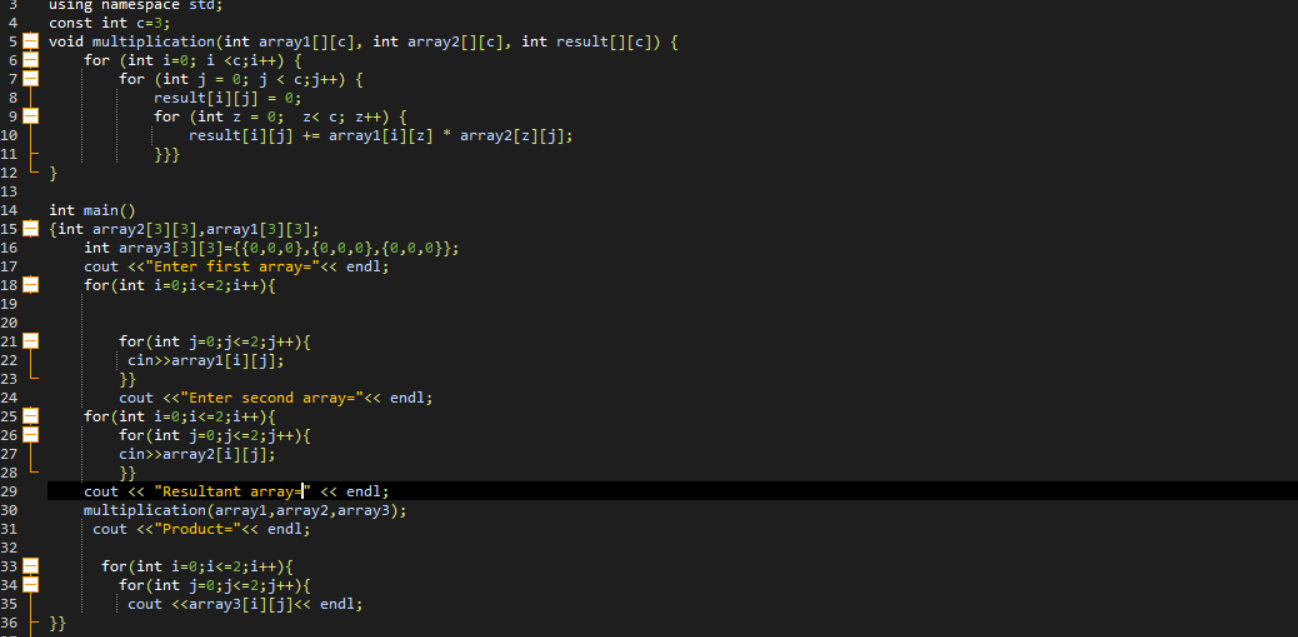
**Using 2D arrays in C++, take transpose of a 3x3 matrix. Make a transpose function.**

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## LAB TASK 4:

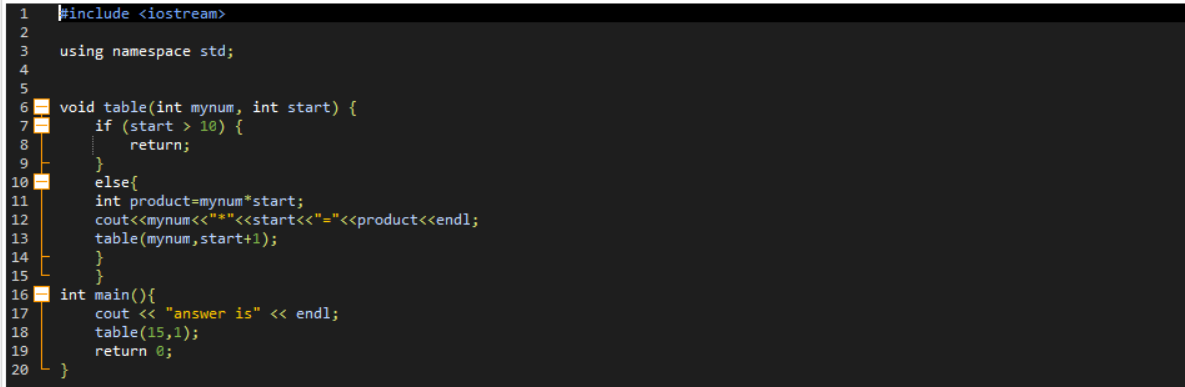
**Using 2D arrays in C++, implement 3x3 matrix multiplication. Make a function.**

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## LAB TASK 5:

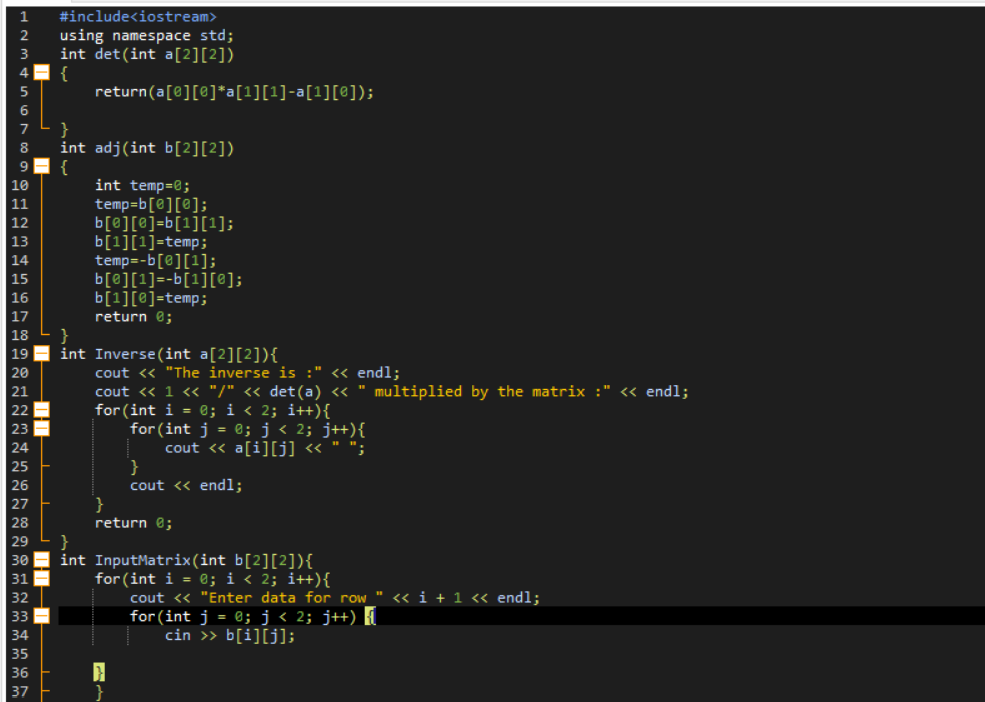
**Print the multiplication table of 15 using recursion.**

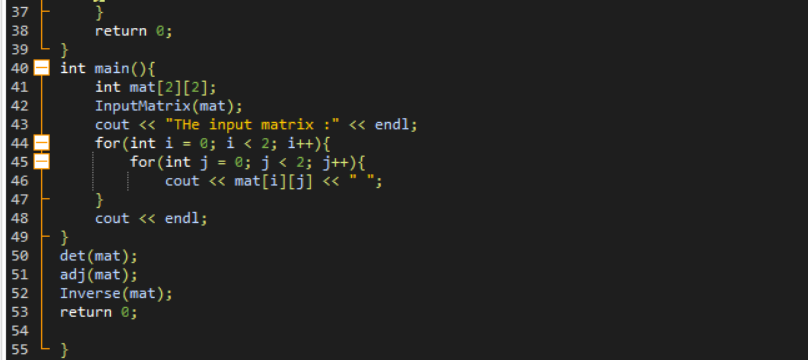
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# HOME TASK

**Write a C++ program to take inverse of a 3x3 matrix using its determinant and adjoint.**

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