Jadavpur University

Department of Electronics and Telecommunication Engineering,

Faculty of Engineering & Technology

DSA LAB REPORT

2nd Year First Semester 2020



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Group 1

POSTFIX IMPLEMENTATION USING STACKS AND TOWER OF HANOI

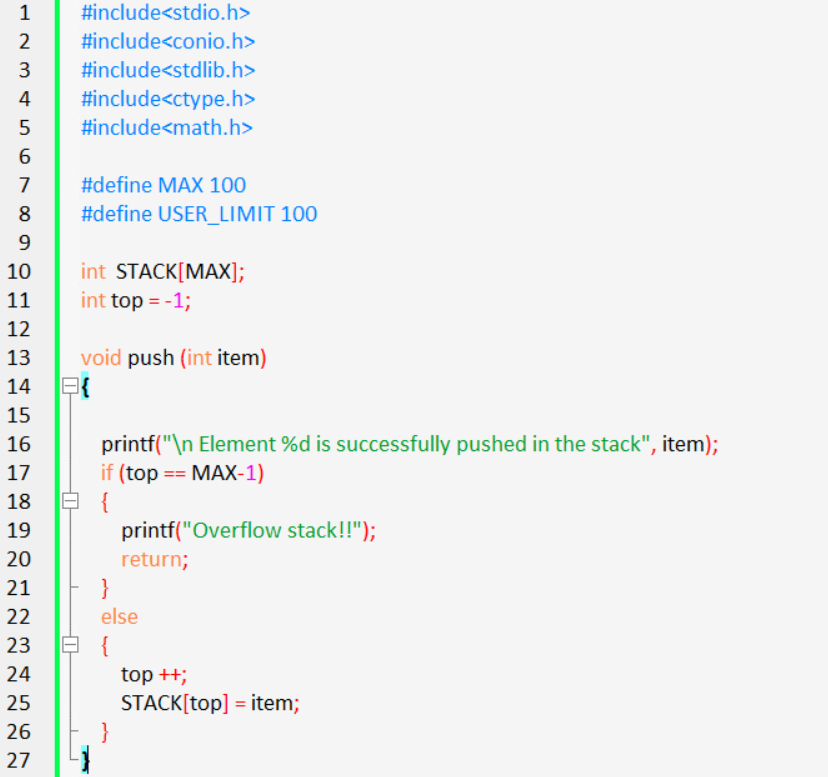
Assignments - 03

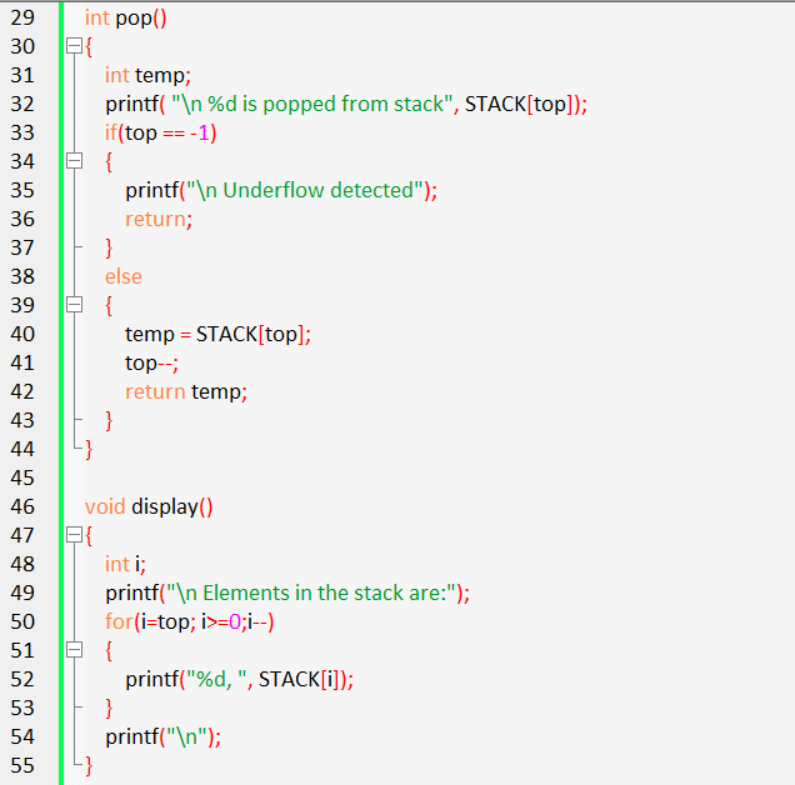
1. ***Evaluate postfix expressions using a Stack. You can use ',' as a delimiter between two tokens in an expression. You can use '$' as the end of input. Always show the intermediate steps including the content of the stack. Take some example postfix expressions. Here is one example:***

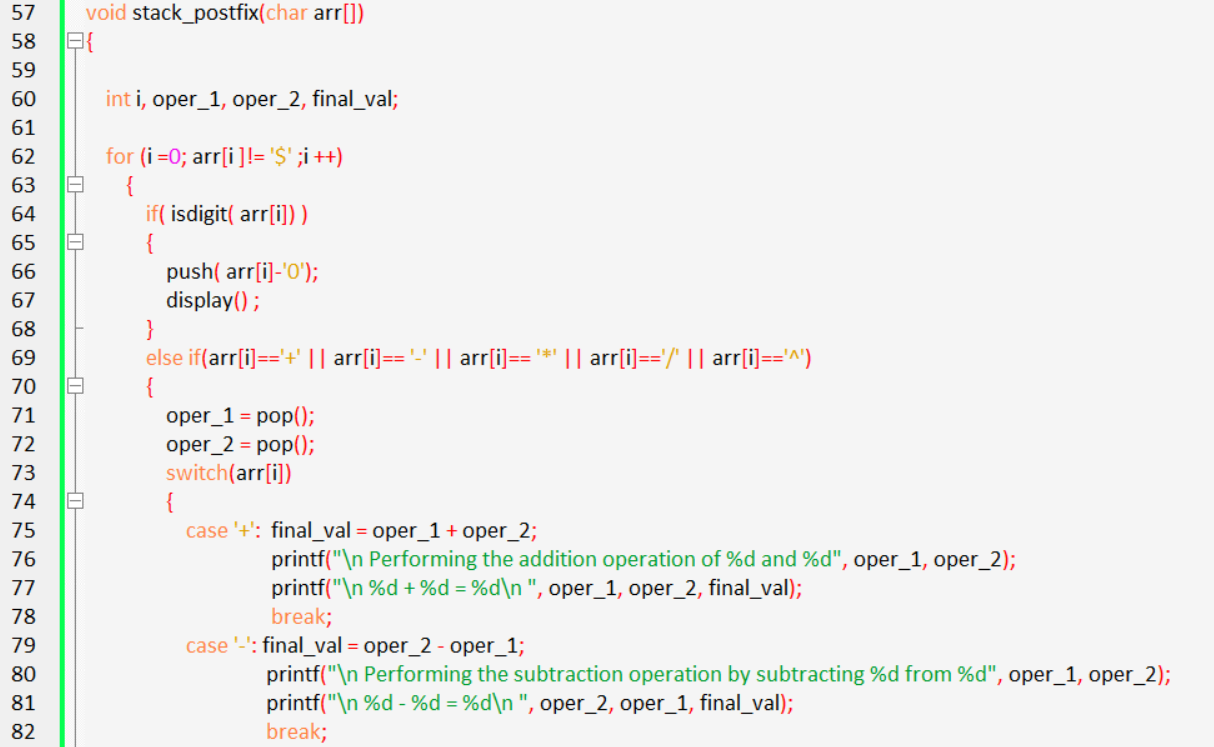
***6, 2, 3, +, -, 3, 8, 2, /, +, \*, 2, ^, 3, +, $***

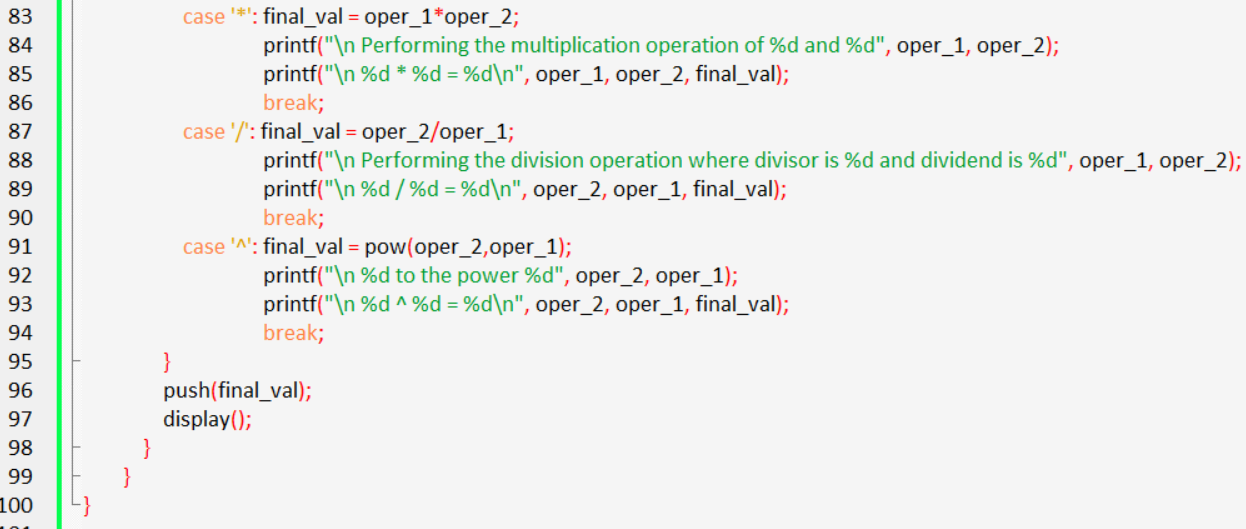
***(Use '^' for exponentiation)***

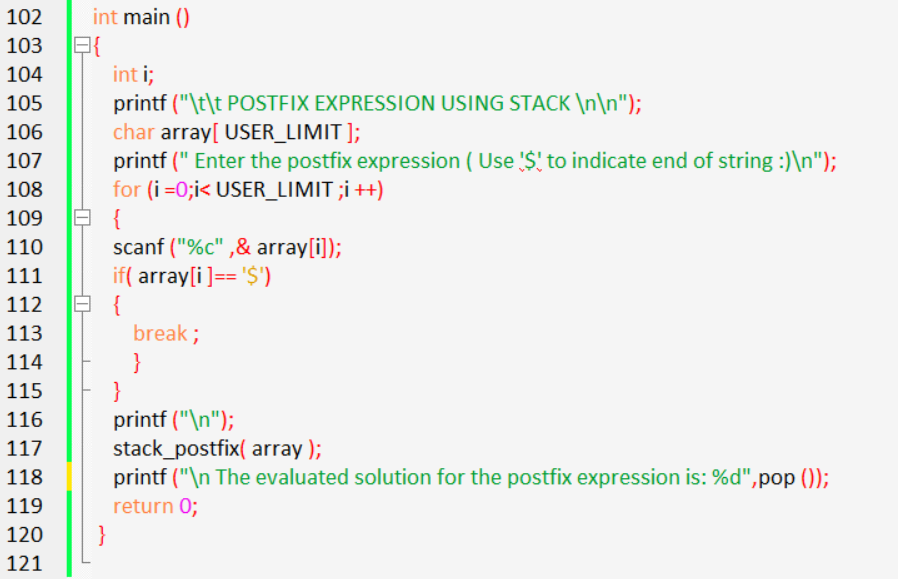
**Code of Postfix Implementation Using Stack:**



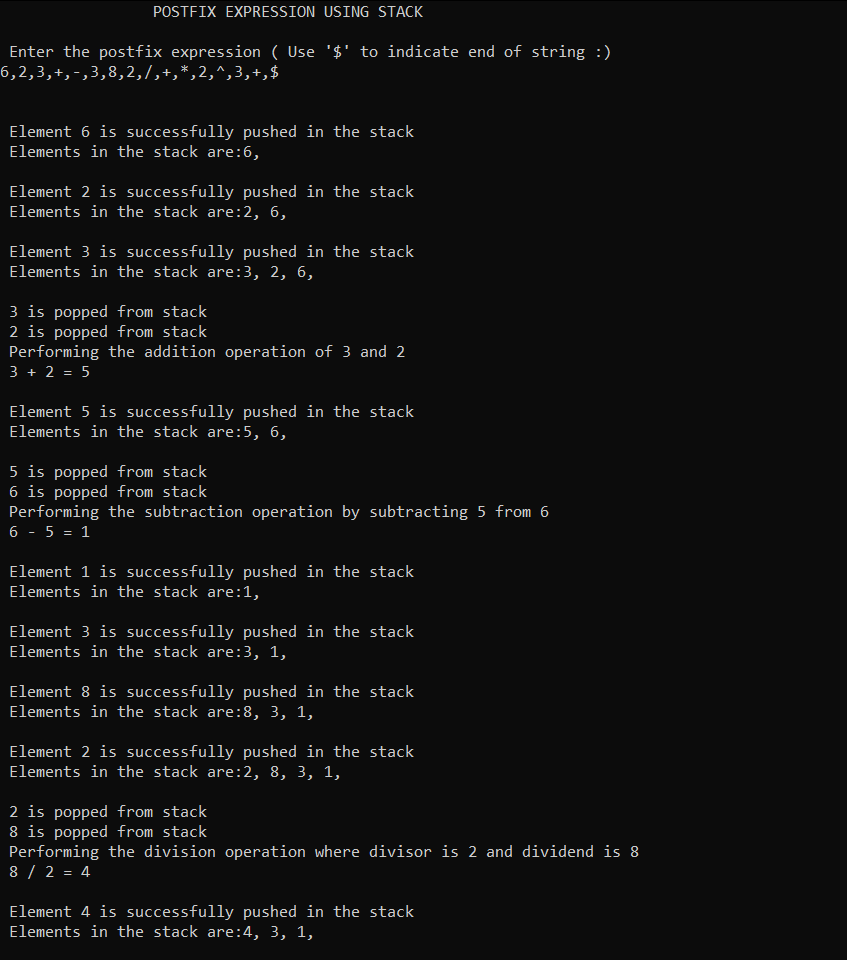


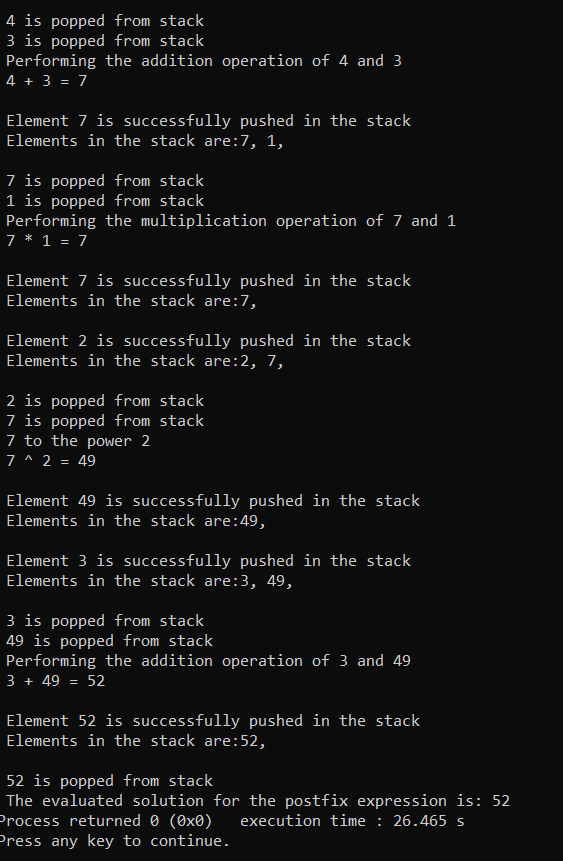






**Output(s):**

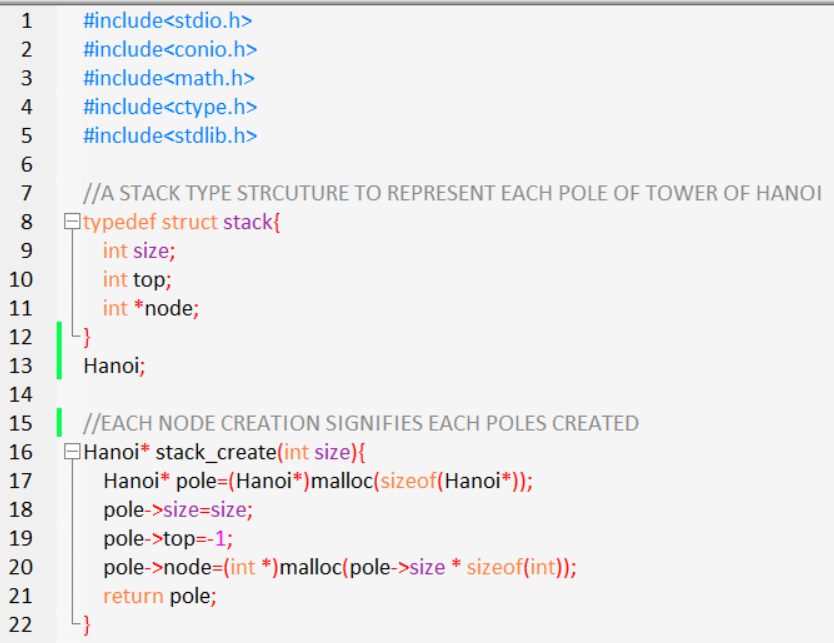


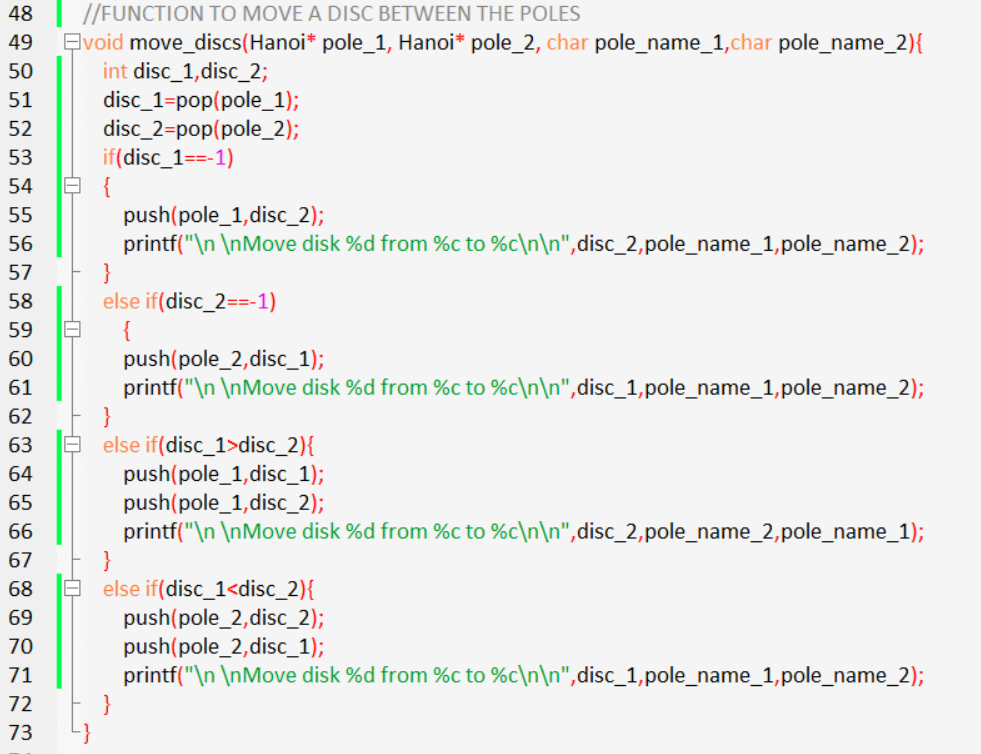
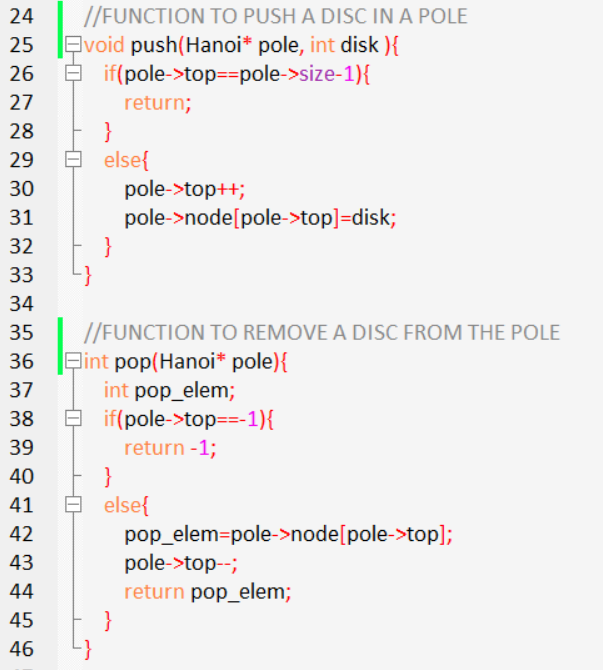


***Q2. Write a program for the Tower of Hanoi problem. Experiment with a varying number of discs. Show the intermediate moves in form of messages like the following:***

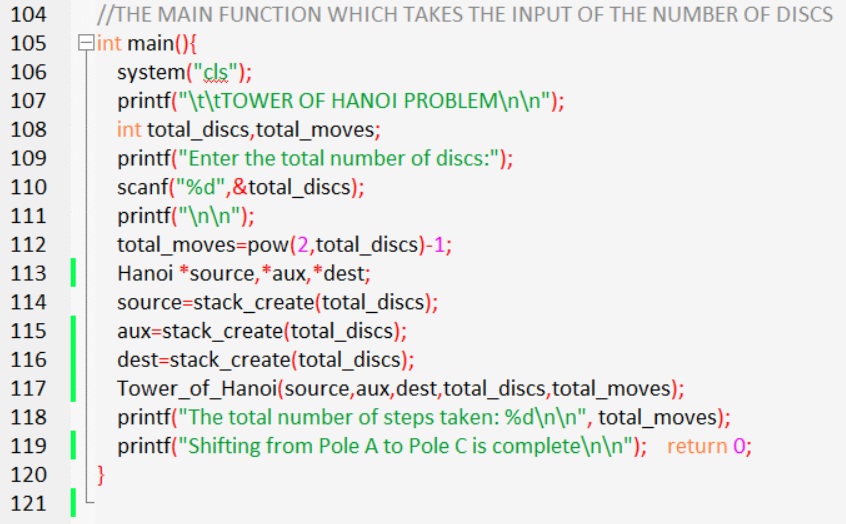
***Move disk ... from rod ... to rod ...***

**Code Of TOWER OF HANOI**



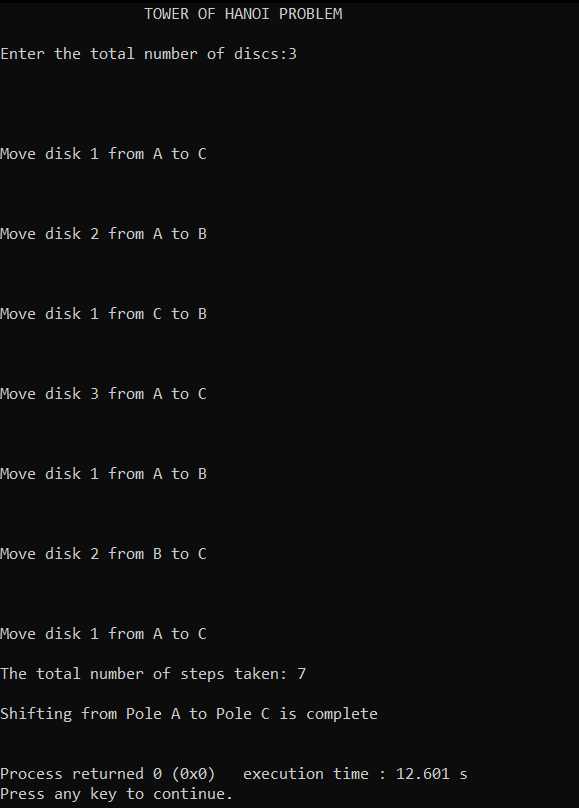




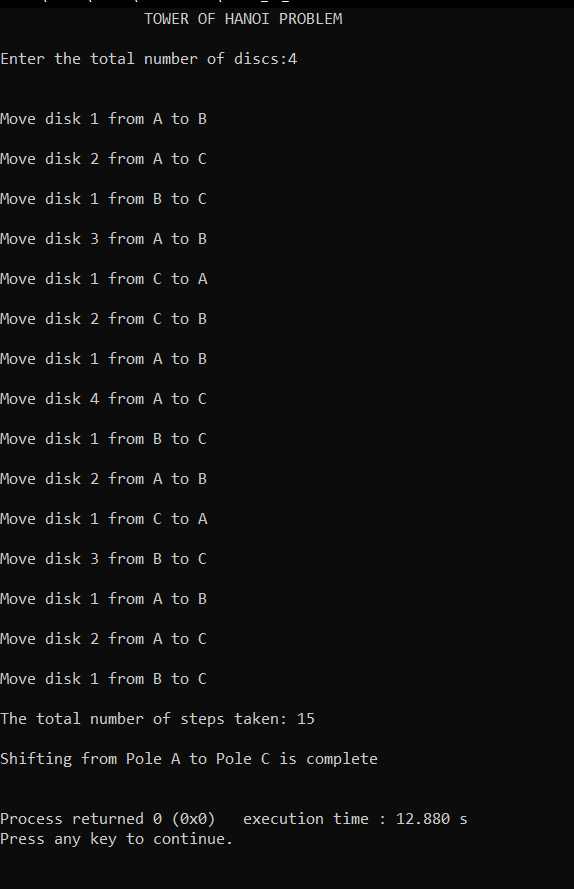


**Output(s):**

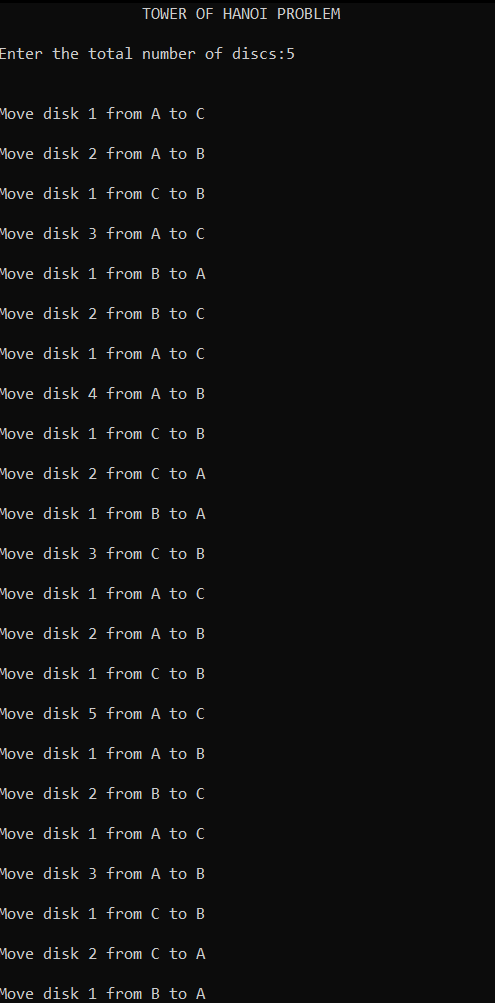
1. **With 3 Discs**

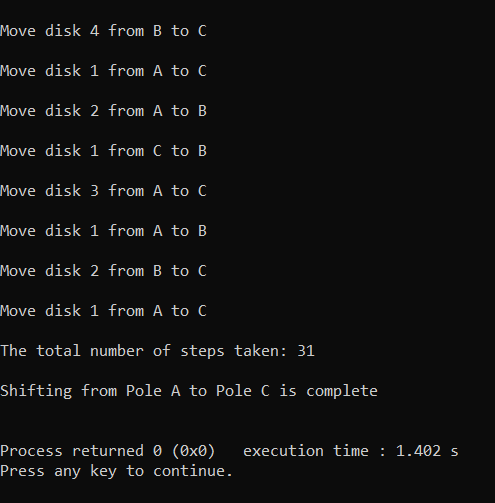
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1. **With 4 discs**

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1. **With 5 discs**

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