



C++

Programming Step-by-Step

Asadullah Shah



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C++ PROGRAMMING: STEP BY STEP

Editors

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CONTENTS

DEDICATION	iii
PREFACE	viii
ACKNOWLEDGEMENT	ix
1. INTRODUCTION	
<i>Asadullah Shah and Assadullah Shaikh</i>	1
2. ARITHMETIC EXPRESSIONS AND DATA TYPES IN C++	
<i>Asadullah Shah and Assadullah Shaikh</i>	5
3. SENDING THE OUTPUT TO A PRINT FILE	
<i>Asadullah Shah and Assadullah Shaikh</i>	11
4. DECISION MAKING: IF-ELSE STATEMENTS AND RELATIONAL OPERATORS	
<i>Asadullah Shah and Assadullah Shaikh</i>	17
5. LOGICAL OPERATORS AND SWITCH STATEMENTS	
<i>Asadullah Shah and Assadullah Shaikh</i>	25
6. REVIEW, SUMMARY & BUILDING SKILL	
<i>Asadullah Shah and Khamran Khowaza</i>	33
7. ITERATIVE STRUCTURES	
<i>Asadullah Shah and Khamran Khowaza</i>	39

8. THE FOR LOOP	
<i>Asadullah Shah and Khamran Khowaza</i>	49
9. THE DO-WHILE LOOP	
<i>Asadullah Shah and Khamran Khowaza</i>	55
10. REVIEW OF VARIABLES, FORMATTING	
<i>Asadullah Shah and Khamran Khowaza</i>	59
11. REVIEW OF ITERATIVE STRUCTURES	
<i>Asadullah Shah and Sumbul Khowaza</i>	63
12. POST-TEST AND NESTED LOOPS	
<i>Asadullah Shah and Sumbul Khowaza</i>	73
13. FUNCTIONS	
<i>Asadullah Shah and Sumbul Khowaza</i>	83
14. CALL-BY-VALUE AND REFERENCE	
<i>Asadullah Shah and Sumbul Khowaza</i>	91
15. MORE ON FUNCTIONS	
<i>Asadullah Shah and Sumbul Khowaza</i>	99
16. STRUCTURES (STRUCT) AND FILES	
<i>Asadullah Shah and Muniba Shaikh</i>	111
17. ARRAYS	
<i>Asadullah Shah and Muniba Shaikh</i>	119
18. EXERCISE OF ARRAY	
<i>Asadullah Shah and Muniba Shaikh</i>	127

19. READ DATA FROM A FILE	
<i>Asadullah Shah and Muniba Shaikh</i>	137
20. OBJECT ORIENTED PROGRAMMING	
<i>Asadullah Shah and Muniba Shaikh</i>	143
21. SELECTION SORTING	
<i>Asadullah Shah and Syed Ifthar Ali</i>	153
22. BUBBLE SORT ALGORITHM	
<i>Asadullah Shah and Syed Ifthar Ali</i>	161
23. REVIEW OF ARRAYS	
<i>Asadullah Shah and Syed Ifthar Ali</i>	167
24. LINEAR SEARCHING	
<i>Asadullah Shah and Syed Ifthar Ali</i>	179
25. BINARY SEARCH	
<i>Asadullah Shah and Syed Ifthar Ali</i>	189
26. VECTOR CLASS	
<i>Asadullah Shah and Ejaz Ahmed</i>	199
27. POINTERS	
<i>Asadullah Shah and Ejaz Ahmed</i>	203
28. FUNCTION POINTERS	
<i>Asadullah Shah and Ejaz Ahmed</i>	213
29. POLYMORPHISM AND VIRTUAL FUNCTIONS	
<i>Asadullah Shah and Ejaz Ahmed</i>	219

30. C++ REFERENCES	
<i>Asadullah Shah and Ejaz Ahmed</i>	223
31. CONST CORRECTNESS	
<i>Asadullah Shah and Osama Mahfooz</i>	229
32. MORE ON CONST KEYWORDS	
<i>Asadullah Shah and Osama Mahfooz</i>	235
33. GOTO STATEMENT	
<i>Asadullah Shah and Osama Mahfooz</i>	241
34. HANDLING ERRORS IN C++	
<i>Asadullah Shah and Osama Mahfooz</i>	249
35. STATIC: THE MULTIPURPOSE KEYWORD	
<i>Asadullah Shah and Osama Mahfooz</i>	253

4. DECISION MAKING: IF-ELSE STATEMENTS AND RELATIONAL OPERATORS

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Abstract

When instructions within a program are executed one after the other sequentially that program is said to have a linear structure. Decision making after examining all available options is very important in life as well as in programming. For example, it is the law that all males 18 or older should register with the selective service. If you are writing a program to send out reminders to enforce this law, the decision to send the letter should be based on if a person is male and if he is 18 or older. In this chapter you will learn how to write statements that make decisions.

4.1 Basic If-Else statements

Given in figure 4.1 is a simple program for calculating student grades for them.

There are several enhancements to this program. This function `"#include <iomanip>` "allows the output to be formatted. There are several stream manipulators in the "iomanip". You may use *setw*, *fixed*, *showpoint* and *setprecision* manipulators to give field width, fixed-point notation, decimal point, and significant digits, respectively. You can also use `cin.ignore()` before the `getchar()` that will clear the keyboard buffer of the newline character.