



C++

Programming Step-by-Step

Asadullah Shah



IIUM PRESS

INTERNATIONAL ISLAMIC UNIVERSITY MALAYSIA

C++ PROGRAMMING: STEP BY STEP

Editors

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IIUM Press

Published by:
IIUM Press
International Islamic University Malaysia

First Edition, 2011
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Perpustakaan Negara Malaysia

Cataloguing-in-Publication Data

Bibliography p.
Includes Index
ISBN

ISBN: 978-967-418-090-4

Member of Majlis Penerbitan Ilmiah Malaysia · MAPIM
(Malaysian Scholarly Publishing Council)

Printed by :
IIUM PRINTING SDN. BHD.
No. 1, Jalan Industri Batu Caves 1/3
Taman Perindustrian Batu Caves
Batu Caves Centre Point
68100 Batu Caves
Selangor Darul Ehsan

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12. POST-TEST AND NESTED LOOPS

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Abstract

So far we learned pre-test loops such as the general while loop, controlled and sentinel loops. These are the loops in which the loop initialized the loop control variable(s) and tested the condition before entering the loop. There are enormous situations in which data-validation would require to be read at least once and then tested for its validity. Also there are special situations where the loop must be executed at least once before the testing is done for example, circular queue and sorting the values or numbers. In such cases the post test looping construct is used.

12.1 Do-While Loop

In C++ the post-test construct is implemented using do-while. In case of data-validation a do-while loop would look some thing like:

Do

Prompt and read the data

While the data is invalid 'keep reading the data if the data entered is not valid. This is shown in a program given in Figure 12.1.