



Sheet # 22: Developing Efficient Algorithms

- ▶ **Textbook: Introduction to Java Programming and Data Structures, Comprehensive Version (12th Edition)**
- ▶ **This sheet covers chapter 22 “Developing Efficient Algorithms”**

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➤ Check Point Questions:

Review the questions at the following URL:

<https://liveexample.pearsoncmg.com/checkpoint12/Chapter22.html>

➤ Solve the following Programming Exercises from the textbook (pages 878-886)

22.1 22.3 22.5 22.6 22.8 22.10
22.12 22.15 22.24 22.26

➤ Mini Project: Maximum Consecutive Increasingly Ordered Substring

Write a program that prompts the user to enter a string and displays the maximum consecutive increasingly ordered substring. Analyze the time complexity of your program. Here is a sample run:

<Output>

Enter a string: **Welcome**
Wel

<End Output>

With our best wishes;