National University of Computer and Emerging Sciences, Lahore Campus

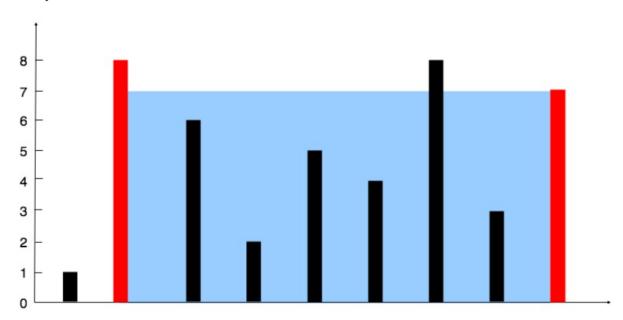|				
Course:	Data Structures Lab		Course Code:	CL2001
Program:	BSE(Computer Science)		Semester:	Fall 2023
Duration:	30 Minutes		Total Marks:	10
Paper Date:	06-Nov-2023		Weight	5%
Section:	C		Page(s):	1
Exam:	Quiz-1		Roll No:	

Question1: You are given an integer array height of length n. There are n vertical lines drawn such that the two endpoints of the ith line are (i, 0) and (i, height[i]).

Find two lines that together with the x-axis form a container, such that the container contains the most water.

Return the maximum amount of water a container can store.

Example 1:

Input: height = [1,8,6,2,5,4,8,3,7]
Output: 49
Explanation: The above vertical lines are represented by array [1,8,6,2,5,4,8,3,7]. In this case, the max area of water (blue section) the container can contain is 4