



CSE113: Programming and Problem Solving

Spring 2026

Quiz - 4

Duration: 35 Minutes

Q1	Assume you are working as a software engineer developing a search system. There are n user names stored in a database (array). Users can search for their names, and the system should suggest all names that contain the given substring. To make the application user-friendly, write a function that takes a name and the substring as parameters to display all names that contain the entered substring. Input: • The first line contains an integer n (number of users). • Next n lines each contain a user name (string may have spaces). • The last line contains a substring of length 4. Output: • Print all users' names that contain the given substring. <table><tr><th>Sample Input</th><th>Sample output</th></tr><tr><td>6 Soul Goodman Anna Marie Annette Rose Joanna Grace Annika Noor Hannah Claire anna</td><td>Anna Marie Joanna Grace Hannah Claire</td></tr></table> Note: Matching should be case-insensitive.	Sample Input	Sample output	6 Soul Goodman Anna Marie Annette Rose Joanna Grace Annika Noor Hannah Claire anna	Anna Marie Joanna Grace Hannah Claire	[7]
Sample Input	Sample output					
6 Soul Goodman Anna Marie Annette Rose Joanna Grace Annika Noor Hannah Claire anna	Anna Marie Joanna Grace Hannah Claire					
Q2	You are developing a simple monitoring system for a weather station. The system records temperatures (in °C) for n days and 3 different time slots per day (morning, afternoon, evening). Now you need to display the maximum temperature along with the day and time slot where it occurred. Input: • The first line contains an integer n (number of days). • Next n lines each line contains 3 integers representing temperatures. Output: • Print the maximum temperature and position (day and time slot).	[6]				

	Sample Input	Sample output	
	3 3 30 32 31 29 35 33 28 34 36	Maximum Temperature: 36 Found at Day 3, Time Slot 3	
	Hint: You can store the temperatures in a 2D array.		
Q3	Create a meme about your student life and write 2–3 lines about it. Or, Write 2-3 lines about your hobby.		[2]

MEME