

CSE 1111: Structured Programming Language

Spring 2025

Assignment

READ THESE INSTRUCTIONS CAREFULLY

- Answer all the questions.
- The solutions must be handwritten.
- Write your name and page number at the bottom of every page
- Scan every page, attach a cover page (with your name and id) and generate a pdf file
- Submit the assignment in the eLMS portal
- The total mark of this assignment is 25 which will be converted to 5.

1	<p>Write a program (WAP) that will print the first N numbers of the Fibonacci series.</p> <p>The Fibonacci series is a series where the first two terms are 1 and all the other terms are the sum of the previous two terms. The first few terms are as follows:</p> <p style="text-align: center;">1, 1, 2, 3, 5, 8, 13, 21, 34, 55, 89,</p> <table><tr><th>Sample input</th><th>Sample output</th></tr><tr><td>1</td><td>1</td></tr><tr><td>2</td><td>1 1</td></tr><tr><td>4</td><td>1 1 2 3</td></tr><tr><td>7</td><td>1 1 2 3 5 8 13</td></tr></table> <p>Note : You are not allowed to use functions.</p>	Sample input	Sample output	1	1	2	1 1	4	1 1 2 3	7	1 1 2 3 5 8 13	5
Sample input	Sample output											
1	1											
2	1 1											
4	1 1 2 3											
7	1 1 2 3 5 8 13											
2	<p>Consider the following code segment. Rewrite the code again and replace the outer and inner for loops using while loops.</p> <pre>for(int i=1,j=1;i<8;j+=2,i++){ int n =i+j; for(n=n+2;n<12;){ n++; printf("i=%d,j=%d and n=%d\n",i,j,n); } }</pre>	5										
3	<p>Write a program that will take an array of n integers from the user as input. Then it will sort the array in ascending order. Note that you need to use nested loops in order to solve this problem.</p>	5										

4	<p>Write a C program to print the following pattern. Take n as user input where n is odd and n>=5.</p> <table><tr><td>Sample input</td><td>n=5</td></tr><tr><td>Sample output</td><td><pre>1 1 3 1 3 5 1 3 5 1 1 3 5 1 3</pre></td></tr></table>	Sample input	n=5	Sample output	<pre>1 1 3 1 3 5 1 3 5 1 1 3 5 1 3</pre>	5
Sample input	n=5					
Sample output	<pre>1 1 3 1 3 5 1 3 5 1 1 3 5 1 3</pre>					
5	<p>Write a program that will take an array of n integers from the user as input. Then it will determine the second largest element from the array.</p>	5				