

Course's Name : C++
Course's Number : 12140101
Questions' Number : 3 Questions
Total Mark : 17+3 Bonus
Time: 29/12/2021



Instructor's Name: _____
Student's Name: _____
Student's Number: _____
Section's Number: _____

Second exam
First Semester 2021-2022

Question #1:

(6 Point)

Question #01: What is the output of the following programs:

#	program	output
1	<pre>#include <iostream> using namespace std; void main() { int x[] = { 9,12,7,41,5 }; for (int i=1; i<5; i=i+2) { cout << x[i] + x[i + 1]<<endl; } }</pre>	
2	<pre>#include <iostream> using namespace std; int mystery(int a, int b) { if (b == 1) return a; else return a + mystery(a - 1, b - 1); } void main() { int x = 6, y = 4; cout << mystery(x, y) << endl; }</pre>	
3	<pre>#include <iostream> using namespace std; void main() { int arr[] = { 2, 6,8, 1,11,5 }; for (int i = 0; i < 3; i++) { for (int j = i + 1; j < i + 2; j++) { if (arr[i] >= arr[j]) { int x = arr[j-1] + 1; arr[j] = arr[i] + 1; arr[i-1] = x + 1; } } } for (int i = 0; i < 5; i++) cout << arr[i] << "\n"; }</pre>	

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Question #2:

(6 Point)

Given an integer array A of size N. Print the array after swapping minimum even number with maximum odd number in the array.

Input 4 21 3 10 8 12 6 2 16

Output 4 2 3 10 8 2 6 21 16

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Question #3:

(5 Points)

Write a C++ function called *isPalnidromic* that receives a reference to an array of integers *called arr and its size*. The function should print “*Palindromic*” if after performing some swaps the array it will be palindrome and print “*Not Palindromic*” otherwise.

Note: An array is Palindrome if you obtain the same output when printing its elements from left to right or printing its elements from right to left.

For example:

Input :

1	2	1	2
---	---	---	---

Output: **Palindromic**

Description: This array is *Palindromic* because if we swap first element with the second or third with fourth it will be *Palindrome*.

Input :

1	2	3	4
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Output: **Not Palindromic**

Description: because it can't be *palindrome*.