CS 003 - FUNDAMENTALS OF COMPUTER SCIENCE II (C++)

## Lab3

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## Problem 1.

 Write a program to move all negative numbers of an array of 10 integers to the end of the array without changing the order of positive numbers and negative numbers (you may use an extra array).

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## Problem 2.

 Write a program to fill the array (size 10) with random numbers between 1 and 15. Sort the array and remove the duplicate numbers (Do not use an extra array).

```
Original Data
7 15 8 6 9 13 10 3 15 8

After Sorting
3 6 7 8 8 9 10 13 15 15

After Removing Duplication
3 6 7 8 9 10 13 15 0 0
```

```
Original Data

12 4 3 11 9 7 4 3 2 12

After Sorting
2 3 3 4 4 7 9 11 12 12

After Removing Duplication
2 3 4 7 9 11 12 0 0 0
```

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## Problem 3.

◆ Write a code that fills the array of size 10 with <u>all different numbers</u> between 1 and 15 (1 and 15 are included).

```
10 7 11 15 8 6 14 4 13 1

More (y/n)? y

1 3 6 11 14 12 7 2 9 4

More (y/n)? y

9 7 8 5 3 12 10 11 6 2

More (y/n)? y

9 5 4 15 12 6 8 2 13 3

More (y/n)? n
```

```
13 5 4 11 8 14 2 9 1 12

More (y/n)? y

2 6 12 15 3 11 9 8 1 5

More (y/n)? y

9 1 12 6 8 15 2 5 10 11

More (y/n)? y

15 10 13 9 5 1 7 12 6 14

More (y/n)? y

4 1 9 13 11 7 14 6 15 3

More (y/n)? y

6 10 15 3 4 13 1 2 11 8

More (y/n)? n
```

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