

Problem Set 3 Exercise #01: Non-Negative

Reference: Lecture 7 notes

Learning objective: One-dimensional array

Estimated completion time: 15 minutes

Problem statement:

Write a program **PS3_Ex01_NonNegative.java**. Your program should contain a static method

```
boolean nonNegative(int[] arr)
```

that returns true if all the elements in **arr** are non-negative, or false otherwise. You may assume that the array has at least one element (which is true for all the subsequent exercises as well).

Sample run #1:

```
Enter the size of the array: 5
Enter 5 elements: 1 -2 3 8 6
Some array elements are negative
```

Sample run #2:

```
Enter the size of the array: 4
Enter 4 elements: 1 3 8 6
All array elements are non-negative
```

Sample run #3:

```
Enter the size of the array: 1
Enter 1 elements: 7
All array elements are non-negative
```

Note:

For simplicity, we stick to the plural form in prompt even if there is only 1 element in the array.