

## Problem Set 3 Exercise #01: Non-Negative

**Reference:** Lecture 6 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.