Assignment 1: Array Basics

Description: This assignment is meant to test your understanding of arrays in Java. Please copy and paste any code you have created under each section’s prompt.

Section 1.

Please write a method that sums all of the elements in an integer array. Include the method code that you write below:

public int sumIntArray(int[] intArray) {

int sum = 0;

for (int i = 0; i <= intArray.length; i++) {

sum += intArray[i];

}

return sum

}

Section 2.

Please write a method that determines the maximum element in an integer array. Include the method code that you write below:

public int findMax(int[] intArray) {

int max = intArray[0];

for (int i = 1; i < intArray.length; i++) {

if (max < intArray[i]) {

max = intArray[i]

}

}

return max

}

Section 3.

Please write a method that attempts to locate an element in an array and return the first element in the array that matches the element. If the element is not found returns -1. Include the method code that you write below:

public int findInt(int[] intArray, int element) {

int found = -1;

for (int i = 0; i < intArray.length; i++) {

if (intArray[i] == element) {

found = element;

}

}

return found;

}

**JGRAM RESULTS**

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| C# | Weight | Grade | Feedback |
| 1 | 3 | 85 | Throws ArrayIndexOutOfBoundsException; watch out for the Boolean condition that controls the for loop’s execution. This for loop executes one more time than you would want it to because of the greater than or equal to sign. |
| 2 | 3 | 100 | Excellent work. Please make sure to include comments next time. |
| 3 | 4 | 90 | Per the prompt, the method should return the first element in the array; use the break keyword to exit the for loop once the element is found. |
|  | Σ | 91.50 |  |