**Unit 2 Chapter 11 Worksheet: Algorithm Workbench Exercise 3**

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CSCI 431: Java Programming Principles II

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April 12, 2022

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Below is the code that I did in InteliJ to meet the requirements in this exercise.

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 Algorithm Workbench Exercise 3  
 Write a method that searches a numeric array for a specified value.  
 The method should return the subscript of the element containing  
 the value if it is found in the array. If the value is not found,  
 the method should throw an exception of the Exception class with  
 the error message "Element not found".  
 \*/  
  
public class AlgWorkbenchChap11Ex3  
{  
 public static int arraySearch (int[] array, int value) throws Exception  
 {  
 int i; // Loop control  
 int element; // Element the value is found at  
 boolean found; // Flag indicating search results  
  
 // Element 0 is the starting point of the search  
 i = 0;  
  
 // Store the default values element and found  
 element = -1;  
 found = false;  
  
 // Search the array  
 while (!found && i < array.length)  
 {  
 if (array[i] == value)  
 {  
 found = true;  
 element = i;  
 }  
 i++;  
 }  
 if (element == -1)  
 {  
 throw new Exception("Element not found.");  
 }  
 else  
 {  
 return element;  
 }  
 }  
}