|  |
| --- |
| // Q3: Find the Highest Element in an Array. |
|  |  |  |
|  |  | public class S3 { |
|  |  |  |
|  |  | public static void main(String[] args) { |
|  |  |  |
|  |  | int[] ary = { 1, 2, -3, -5, 5, 10, 45, 21, 87, 4, 2 }; |
|  |  |  |
|  |  | Integer maxElement = higestElement(ary, ary.length - 1, Integer.MIN\_VALUE); // Fixed |
|  |  |  |
|  |  | if (maxElement == null) |
|  |  | System.out.println("Array is empty :("); |
|  |  | else |
|  |  | System.out.println("Max element in the array is: " + maxElement); |
|  |  |  |
|  |  | } |
|  |  |  |
|  |  | static Integer higestElement(int[] ary, int index, int max) { |
|  |  |  |
|  |  | if (ary.length == 0) { |
|  |  | return null; |
|  |  | } |
|  |  |  |
|  |  | if (index < 0) { |
|  |  | return max; |
|  |  | } |
|  |  |  |
|  |  | int tillMax = higestElement(ary, index - 1, max); |
|  |  |  |
|  |  | max = (ary[index] > tillMax) ? ary[index] : tillMax; |
|  |  |  |
|  |  | return max; |
|  |  | } |
|  |  | } |