Given an array of integers, find the pair of adjacent elements that has the largest product and return that product.

**Example**

For inputArray = [3, 6, -2, -5, 7, 3], the output should be  
adjacentElementsProduct(inputArray) = 21.

7 and 3 produce the largest product.

**Input/Output**

* **[time limit] 3000ms (java)**
* **[input] array.integer inputArray**

An array of integers containing at least two elements.

*Guaranteed constraints:*  
2 ≤ inputArray.length ≤ 10,  
-1000 ≤ inputArray[i] ≤ 1000.

* **[output] integer**

The largest product of adjacent elements.