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

* **[execution time limit] 3 seconds (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.

**[Java] Syntax Tips**

// Prints help message to the console

// Returns a string

//

// Globals declared here will cause a compilation error,

// declare variables inside the function instead!

String **helloWorld**(String name) {

System.out.println("This prints to the console when you Run Tests");

**return** "Hello, " + name;

}