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import java.io.*;
import java.util.*;
class Day53 {
  // Function to find the maximum product subarray
  static int maxProductSubarray(int[] nums) {
    if (nums.length == 0) {
      return 0;
    }
    int maxProduct = nums[0];
    int minProduct = nums[0];
    int result = nums[0];
    for (int i = 1; i < nums.length; i++) {
      // When multiplied by -ve number, max product becomes min and min becomes max
      if (nums[i] < 0) {
        int temp = maxProduct;
        maxProduct = minProduct;
        minProduct = temp;
      }
      maxProduct = Math.max(nums[i], maxProduct * nums[i]);
      minProduct = Math.min(nums[i], minProduct * nums[i]);
      // Updating the result
      result = Math.max(result, maxProduct);
    }
    return result;
```

```
}
// Driver code
public static void main(String[] args) throws NumberFormatException, IOException {
  BufferedReader br = new BufferedReader(new InputStreamReader(System.in));
  // Inputting the size of the array
  int N = Integer.parseInt(br.readLine());
  // Inputting the array
  int[] nums = new int[N];
  String[] input = br.readLine().trim().split(" ");
  for (int i = 0; i < N; i++) {
    nums[i] = Integer.parseInt(input[i]);
  }
  // Finding the maximum product subarray
  int maxProduct = maxProductSubarray(nums);
  System.out.println("Maximum product subarray is: " + maxProduct);
}
```

}