- The product difference between (a, b) and (c, d) is
  (a * b) - (c * d)

- Given a container of numbers, choose an a, b, c, d such the product difference is maximized

- Return the maximized product difference.

The approach is easy. Find the two largest numbers, then find the two smallest numbers.

a = max1, b = max2, c = min1, d = min2

Then return (a * b) - (c * d)

How to find these values?

Approach 1:

1.) Sort the array
2.) First two elements are min1 and min2
3.) Last two elements are max1 and max2.
4.) Return product difference.

Approach 2:

1.) Enumerate over all values in array
2.) Compare each item with curr max & min, updating in linear fassion.
3.) values [0...1] are maximums. values [2...3] are minimums
4.) Return product difference of chosen values.