

Offline: Maximum Product Sub Array

Write a C program to find the contiguous sub array within an array (containing at least one number) which has the largest product.

For example, given the array [2, 3, -2, 4], the contiguous sub array [2, 3] has the largest product of 6.

To understand contiguous sub array, given the array [1, 2, 3] the contiguous sub arrays are [1], [2], [3], [1, 2], [2, 3], [1, 2, 3], but [1, 3] is not a contiguous sub array.

Sample Input	Sample Output	Explanation
[1, 3, 2, 4]	24	$1 \times 3 \times 2 \times 4 = 24$
[6, -3, -10, 0, 2]	180	$6 \times -3 \times -10 = 180$
[2, 3, -2, 4]	6	$2 \times 3 = 6$
[-1, -3, -10, 0, 60]	60	60