class Solution(object):

def maxProduct(self, nums):

"""

:type nums: List[int]

:rtype: int

"""

##fx for max,gx for min, check return result

fx = [float("-inf") for i in range(len(nums))]

gx = [float("inf") for i in range(len(nums))]

for i in range(len(nums)):

a,b = float("-inf"),float("inf")

if i>0:

a = max(fx[i-1]\*nums[i],gx[i-1]\*nums[i])

b = min(fx[i-1]\*nums[i],gx[i-1]\*nums[i])

fx[i] = max(nums[i],a)

gx[i] = min(nums[i],b)

return max(fx)