from math import inf

class Solution:

def maxProduct(self, nums: List[int]) -> int:

p = 0

first\_neg = 0

first\_neg\_excluded = False

p\_max = -inf

for x in nums:

if x == 0:

p = 0

first\_neg = 0

first\_neg\_excluded = False

elif x > 0:

if p == 0:

p = x

else:

p \*= x

if p < 0:

p //= first\_neg

first\_neg\_excluded = True

else:

p = p \* x if p != 0 else x

if p < 0:

if first\_neg == 0:

first\_neg = p

elif first\_neg\_excluded:

p \*= first\_neg

first\_neg\_excluded = False

else:

p //= first\_neg

first\_neg\_excluded = True

if p > p\_max:

p\_max = p

return p\_max