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# you can write to stdout for debugging purposes, e.g.
# print("this is a debug message")

def solution(A):
    # write your code in Python 3.6
    A.sort()
    A_pos = [] #list with positive numbers or 0
    A_neg = [] # list with negative numbers
    cut = 0 # cutting index for >=0 and <0 lists

    # list splitting
    for i in range(0, len(A)):
        if (A[i] >= 0):
            cut = i
            break

    # creating >= and <0 lists
    A_neg = A[0:cut]
    A_pos = A[cut:len(A)]

    # if any of the lists has length 0 it means there is no opposite value
    if (A_neg == 0) or (A_pos == 0):
        return 0

    # convert all negative values to positive ones
    A_neg = [ -x for x in A_neg ]

    # list should begin with biggest number and move on to smaller ones
    A_pos.reverse()

    # since both lists are ordered from biggest to smallest number
    # the first number "neg" in the A_neg list that appears in the "A_pos" list
    # is going to be the biggest integer K such that -K also exists

    for neg in A_neg:
        for pos in A_pos:
            if (neg == pos) and (neg != 0): #discards value 0, since the assignment says K > 0
                return neg

    return 0

    pass

```