Given an array A of integers, we **must** modify the array in the following way: we choose an i and replace A[i] with -A[i], and we repeat this process K times in total.  (We may choose the same index i multiple times.)

Return the largest possible sum of the array after modifying it in this way.

**Example 1:**

**Input:** A = [4,2,3], K = 1

**Output:** 5

**Explanation:** Choose indices (1,) and A becomes [4,-2,3].

**Example 2:**

**Input:** A = [3,-1,0,2], K = 3

**Output:** 6

**Explanation:** Choose indices (1, 2, 2) and A becomes [3,1,0,2].

**Example 3:**

**Input:** A = [2,-3,-1,5,-4], K = 2

**Output:** 13

**Explanation:** Choose indices (1, 4) and A becomes [2,3,-1,5,4].

**Note:**

1. 1 <= A.length <= 10000
2. 1 <= K <= 10000
3. -100 <= A[i] <= 100