class Solution {

public void rotate(int[] nums, int k) {

k %= nums.length; // Handle k being greater than array length

// Reverse the entire array

reverse(nums, 0, nums.length - 1);

// Reverse the first k elements

reverse(nums, 0, k - 1);

// Reverse the remaining elements (from k to end)

reverse(nums, k, nums.length - 1);

}

private void reverse(int[] nums, int start, int end) {

while (start < end) {

int temp = nums[start];

nums[start] = nums[end];

nums[end] = temp;

start++;

end--;

}

}

}