Check Palindrome

Given a string s, return whether it is a palindrome.

Constraints
n ≤ 100,000 where n is the length of s

Example 1
Input
s = racecar
Output
true

Example 2
Input
s = evilolive
Output
true

Example 3
Input
s = palindrome
Output
false

Swap Consecutive Index Pairs

Given a list of integers nums, swap each consecutive even indexes with each other,
and swap each consecutive odd indexes with each other.

Constraints
n ≤ 100,000 where n is the length of nums

Example 1
Input
nums = [0, 1, 2, 3, 4, 5, 6, 7, 8]
Output
[2, 3, 0, 1, 6, 7, 4, 5, 8]
Explanation
0 and 2 gets swapped
1 and 3 gets swapped
4 and 6 gets swapped
5 and 7 gets swapped
8 remains the same

Smallest Pair Sum with Distance Constraint

You are given a list of integers nums. Consider any pair of indices i < j
such
that j - i > 1. Return the smallest pair sum.

Constraints
3 ≤ n ≤ 100,000 where n is the length of nums

Example 1
Input
nums = [2, 3, 1, 1, 3]
Output
3

Explanation
We pick values 2 and 1 for total sum of 3. Note that we can't pick 1
and 1 since
it would violate the j - i > 1 constraint.

Max Product of Three Numbers

Given a list of integers nums, find the largest product of three distinct elements.

Constraints
3 ≤ n ≤ 100,000 where n is the length of nums

Example 1
Input
nums = [5, 4, 1, 3, -2, -2]
Output
60
Explanation
We can multiply 5 * 4 * 3

Example 2
Input
nums = [-3, 1, 1, 0]
Output
0
Explanation
We can multiply 1 * 1 * 0