1. 4Sum.

Given an array nums of n integers, return an array of all the unique quadruplets [nums[a], nums[b], nums[c], nums[d]] such that:

 $0 \le a, b, c, d \le n$

a, b, c, and d are distinct.

nums[a] + nums[b] + nums[c] + nums[d] == target

You may return the answer in any order.

Example 1: Input: nums = [1,0,-1,0,-2,2], target = 0 Output: [[-2,-1,1,2],[-2,0,0,2],[-1,0,0,1]]

Example 2: Input: nums = [2,2,2,2,2], target = 8 Output: [[2,2,2,2]]

2. Largest palindromic number.

You are given a string num consisting of digits only.

Return the largest palindromic integer (in the form of a string) that can be formed using digits taken from num. It should not contain leading zeroes.

Notes:

You do not need to use all the digits of num, but you must use at least one digit.

The digits can be reordered.

Example 1:

Input: num = "444947137"

Output: "7449447"

Explanation:

Use the digits "4449477" from "444947137" to form the palindromic integer "7449447".

It can be shown that "7449447" is the largest palindromic integer that can be formed.

Example 2:

Input: num = "00009"

Output: "9" Explanation:

It can be shown that "9" is the largest palindromic integer that can be formed.

Note that the integer returned should not contain leading zeroes.

- 3. Median of row wise sorted array.
- 4. Remove stars from a string.

You are given a string s, which contains stars *.

In one operation, you can:

Choose a star in s.

Remove the closest non-star character to its left, as well as remove the star itself. Return the string after all stars have been removed.

Note:

The input will be generated such that the operation is always possible. It can be shown that the resulting string will always be unique.

Example 1:

Input: s = "leet**cod*e"

Output: "lecoe"

Explanation: Performing the removals from left to right:

- The closest character to the 1st star is 't' in "leet**cod*e". s becomes "lee*cod*e".
- The closest character to the 2nd star is 'e' in "lee*cod*e". s becomes "lecod*e".
- The closest character to the 3rd star is 'd' in "lecod*e". s becomes "lecoe".

There are no more stars, so we return "lecoe".

Example 2:

Input: s = "erase****"

Output: ""

Explanation: The entire string is removed, so we return an empty string.