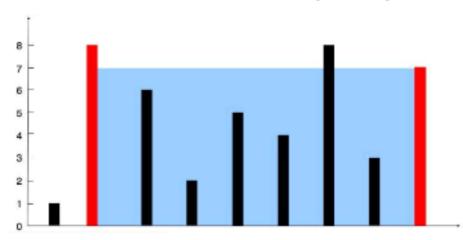
11 .Container With Most Water You are given an integer array height of length n. There are n vertical lines drawn such that the two endpoints of the ith line are (i, 0) and (i, height[i]). Find two lines that together with the x-axis form a container, such that the container contains the most water. Return the maximum amount of water a container can store. Notice that you may not slant the container.



Example 2:

Input: height = [1,8,6,2,5,4,8,3,7] Output: 49 Explanation: The above vertical lines are represented by array [1,8,6,2,5,4,8,3,7]. In this case, the max area of water (blue section) the container can contain is 49.

```
| Publish Color Chica Water Help | Publish Color | Publish Col
```

12. Integer to Roman Roman numerals are represented by seven different symbols: I, V, X, L, C, D and M. Symbol Value I 1 V 5 X 10 L 50 C 100 D 500 M 1000 For example, 2 is written as II in Roman numeral, just two one's added together. 12 is written as XII, which is simply X + II. The number 27 is written as XXVII, which is XX + V + II. Roman numerals are usually written largest to smallest from left to right. However, the numeral for four is not IIII. Instead, the number four is written as IV. Because the one is before the five we subtract it making four. The same principle applies to the number nine, which is written as IX. There are six instances where subtraction is used: ● I can be placed before V (5) and X (10) to make 4 and 9. ● X can be placed before L (50) and C (100) to make 40 and 90. ● C can be placed before D (500) and M (1000) to make 400 and 900. Given an integer, convert it to a roman numeral.

Example 1: Input: num = 3 Output: "III" Explanation: 3 is represented as 3 ones.

```
### Descriptions (name of the content of the conten
```

13. Roman to Integer Roman numerals are represented by seven different symbols: I, V, X, L, C, D and M. Symbol Value I 1 V 5 X 10 L 50 C 100 D 500 M 1000 For example, 2 is written as II in Roman numeral, just two ones added together. 12 is written as XII, which is simply X + II. The number 27 is written as XXVII, which is XX + V + II. Roman numerals are usually written largest to smallest from left to right. However, the numeral for four is not IIII. Instead, the number four is written as IV. Because the one is before the five we subtract it making four. The same principle applies to the number nine, which is written as IX. There are six instances where subtraction is used: ● I can be placed before V (5) and X (10) to make 4 and 9. ● X can be placed before L (50) and C (100) to make 40 and 90. ● C can be placed before D (500) and M (1000) to make 400 and 900. Given a roman numeral, convert it to an integer.

Example 1: Input: s = "III" Output: 3 Explanation: III = 3.

```
## wides(1)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)

** (**)
```

14. Longest Common Prefix Write a function to find the longest common prefix string amongst an array of strings. If there is no common prefix, return an empty string "".

15. 3 Sum Given an integer array nums, return all the triplets [nums[i], nums[j], nums[k]] such that i != j, i != k, and j != k, and nums[i] + nums[j] + nums[k] == 0. Notice that the solution set must not contain duplicate triplets.

Example 1: Input: nums = [-1,0,1,2,-1,-4] Output: [[-1,-1,2],[-1,0,1]] Explanation: nums[0] + nums[1] + nums[2] = (-1) + 0 + 1 = 0. nums[1] + nums[2] + nums[4] = 0 + 1 + (-1) = 0. nums[0] + nums[3] + nums[4] = (-1) + 2 + (-1) = 0. The distinct triplets are [-1,0,1] and [-1,-1,2]. Notice that the order of the output and the order of the triplets does not matter

16. 3 Sum Closest Given an integer array nums of length n and an integer target, find three integers in nums such that the sum is closest to target. Return the sum of the three integers. You may assume that each input would have exactly one solution.

Example 1: Input: nums = [-1,2,1,-4], target = 1 Output: 2 Explanation: The sum that is closest to the target is 2. (-1 + 2 + 1 = 2).

```
## Noted Delay Delaw Weshes Help

### Special Delay Delaw Weshes Help

### Special Delay Delay Delay (Associated Control of the control of th
```

17. Letter Combinations of a Phone Number Given a string containing digits from 2–9 inclusive, return all possible letter combinations that the number could represent. Return the answer in any order. A mapping of digits to letters (just like on the telephone buttons) is given below. Note that 1 does not map to any letters.



Example 1: Input: digits = "23" Output: ["ad","ae","af","bd","be","bf","cd","ce","cf"]

```
| We that there (there there were provided to the plant of the plant o
```

18. 4 Sum 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 <= a, b, c, d < 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.</p>

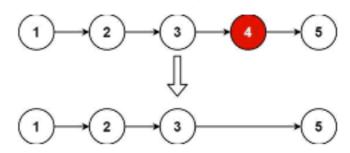
Example 1: Input: nums = [1,0,-1,0,-2,2], target = 0 Output: [[-2,-1,1,2],[-2,0,0,2], [-1,0,0,1]]

```
| State | Stat
```

19. Remove Nth Node From End of List Given the head of a linked list, remove the

nth node from the end of the list and return its head.

Example 1: Input: head = [1,2,3,4,5], n = 2 Output: [1,2,3,5]



```
No bit tends has Opions Wester Hels
class mode:
int __int__(well, water).
sett.mids = water
relf.max = Some
                                                                                                                                                        hyphon 3.12.1 (mage/w3.12.1:f6650f8, apr 8 3624, 14:65:25) [past w.1800 64 Mdz (ama64)] = amasint)
Type "solp", "converget", "credits" or "license()" for more information.
                                                                                                                                                            Recruser: 0:/users/bharant.a/opplats/Local/Programs/Pythot/Pythot/12/9tht.pg
     DESTABLE Collisions/Demonic R/Amphilas/Local/Programs/Estimo/EstimoR127ELibrary
                                                                                                                                                         Emmined Link Before Teletions
1 2 3 4 5
                                                                                                                                                                    ties after beletion:
 define in Next Boards
     | print bid [head]
| plr = based
| whole (prr != none):
| print (prr.data, end = ")
| print () | print() |
define tesestrandes control peac, into-
      Toroth = Jength (bead)
      codefordSpiratog = Length - a + 1
prev - sore
trup - mond
tog a an ensue(Ly nodeForeSpirator)
         opt in the case (is noteficesbeginning);

prev = temp

samp samp.nest

[prev | bead | bead nest

bead = bead nest
             return head.
          prosenest in presentationest retain head.
```

20. Valid Parentheses Given a string s containing just the characters '(', ')', '{', '}', '[' and ']', determine if the input string is valid. An input string is valid if: 1. Open brackets must be closed by the same type of brackets. 2. Open brackets must be closed in the correct order. 3. Every close bracket has a corresponding open bracket of the same type.

Example 1: Input: s = "()" Output: true

```
eyeber 5.12.1 reagon/clilifold(6) age 9 2024, 14:05(20) | pac *.1820 (4 bit locals)|
on winds
The "thirt" "execution", "execution" "execution" the most independent
and for act conversablement Micrograma/scal/vectomes/synthemiss/Here.py
HILD(1) Tablement
HILD(
```