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You are provided a BST, which is corrupted. One of the nodes in it has 2 parents.
 Let's say those are parent 1 and parent 2. It is ensured that none of these parents will be the ancestor of the other. Identify the node, and remove the link of the wrong parent.

3

Answers
 (/question?id=5695490988441600)

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given an array of strings and characters, make the largest string possible. The resultant string should be a combination of the strings given in the array.
 The given array of characters may contain repeated elements.
 Example – Given char array – {a,a,b,c,d,d,e,c} and given strings – {abba, aabc, de, cde} the ans is aabccde

7

Answers
 (/question?id=5750637831651328)

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Given an adjacency matrix of a directed graph, find the number of cycles in the graph

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Answers
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Given K sorted (ascending) arrays. Write an iterator class that iterate over the arrays and returns the next element. Duplicate are allowed. What is the complexity to iterate the entire arrays? what is the complexity for each

9

Answers
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iteration?

Example:

```
arr1 = {1,2,3,4,7,9}
arr2 = {3,5,6,8,10}
```

The iterator should return:

```
1,2,3,3,4,5,6,7,8,9,10
```

Extension:

Don't return duplicates, so the above iterator should return:

```
1,2,3,4,5,6,7,8,9,10
```

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Given a binary tree that complies to the following rule:

The parent node value is always the the result of the AND operator of its children values.

You modify one of the LEAF nodes value (e.g. if it was 1 it is now 0). Write a function that fixes the tree so it complies with the above rule.

```
//
//      0
//    /  \
//   1    0
//  / \  / \
// 1  1 0  1
//
//      1
//    /  \
//   1    1
//  / \  / \
// 1  1 1  1
//
// =====>
//
// The parent node value is always children value's LOGICAL AND
// &
//
```

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Given an array of integers, return the index of the max value in this array.

Note:

If the max value appears more than once, the function should return one the indexes, but make it so that the next call will return different index.

Important: you are not allowed to store state between calls

Example: given this input array

```
// 0   -1   6   4   5   6   6
//      |       |       |
//      2,1/3   5,1/3   6,1/3
```

Function signature:

```
int getIndex(const std::vector<int>& numbers);
```

Example output:

```
2
5
6
5
2
```

Extension:

What if you knew how many times the max value appears in the array, can you improve the function performance?

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So using the given example array, the function signature is now:

```
int getIndex(const std::vector<int>& numbers, int maxCount
```

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```
Given an array of n * m matrix, and a moving matrix window
Can you do it better than brutal force method?
void getMedian(int[][] matrix, int k){
    print median
}
For matrix
[
    [1, 5, 3],
    [3, 2, 1],
    [4, 1, 9],
]
The moving window size k = 2.

At first the window is at the start of the array like this
[
    [1, 5],
    [3, 2],
    [4, 1],
]
, get the median (2 + 3) / 2 = 2.5;
then the window move one step forward.
[
    [5, 3],
    [2, 1],
    [1, 9],
]
, get the median (2 + 3) / 2 = 2.5
then the window move one step forward again.
[
    [3, 2],
    [2, 1],
    [1, 9],
]
, get the median (2 + 3) / 2 = 2.5
then the window move one step forward again.
[
    [2, 1],
    [1, 9],
]
, get the median (1 + 2) / 2 = 1.5
```

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We are planning an orienteering game.
The aim of this game is to arrive at the goal (G) from the start (S) with the shortest distance.
However, the players have to pass all the checkpoints (@) on the map.
An orienteering map is to be given in the following format.

```
#####
#@....G#
##.##@##
#..@..S#
#@.....#
#####
```

In this problem, an orienteering map is to be given.
Calculate the minimum distance from the start to the goal with passing all the checkpoints.

Specification

- * A map consists of 5 characters as following.
- You can assume that the map does not contain any invalid characters and the map has exactly one start symbol 'S' and exactly one goal symbol 'G'.
- * 'S' means the orienteering start.
- * 'G' means the orienteering goal.
- * '@' means an orienteering checkpoint.
- * '.' means an opened-block that players can pass.
- * '#' means a closed-block that players cannot pass.
- * It is allowed to move only by one step vertically or horizontally (up, down, left, or right) to the

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What's Going On



lionelsm786786 said We have the most dedicated people at work, who not ...



lionelsm786786 said We have all the things that are required to help ...



lionelsm786786 said It is a fact that we have been working over ...



lionelsm786786 said Although there are many charities to donate in the world ...



lionelsm786786 said We have all the things that are required to help ...

4

Answers
(/question?id=574694234)

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next block.
 Other types of movements, such as moving diagonally (left up, right up, left down and right down) and skipping one or more blocks, are NOT permitted.
 * You MUST NOT get out of the map.
 * Distance is to be defined as the number of movements to the different blocks.
 * You CAN pass opened-blocks, checkpoints, the start, and the goal more than once if necessary.
 * You can assume that parameters satisfy following conditions.
 * $1 \leq \text{width} \leq 100$
 * $1 \leq \text{height} \leq 100$
 * The maximum number of checkpoints is 18.

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convert prefix to postfix expression
 public String convert2postfix(String prefix){
 }
 }

6

Answers
 (/question?id=5732916595261440)

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Given an array of integers where each element points to the index of the next element how would you detect if there is a cycle in this array
 can you do it without extra space

17

Answers
 (/question?id=6208755887767552)

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I get a chance to talk to Facebook software engineer during my android engineer interview. He asked me couple of question about native android like diff between views and fragment, mutable and immutable string, diff between string builder and string and a programming question convert int into words.

0

Answers
 (/question?id=5727174039437312)

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There is a maze of size m*n. You are sitting at (0,0). Another person is sitting in another cell. There are some cheeses placed in different cells with a cell value of 2. Some cells are blocked with a value of 1, thus you cannot pass it, while some cells are filled with 0, thus you can pass it. You can move to left, right, up, down at each step. You have to collect all the pieces of cheese and then reach to Another Person cell. You need to return the minimum no. of steps required to do so.
 Public int getShortest(int[][] maze, int[] anotherPersonCell){
 }
 }

13

Answers
 (/question?id=5670461680648192)

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We start with a list of Integers. We can remove a group of integers from the list if the all but one equals the remaining number. This removal operation can be performed in the remaining number of list until no more operations can be performed.
 Write a function which can accept an array of integers, and return the minimal number of remaining integers from performing this operation.
 Example [1, 3, 5, 6] -> remove 1, 5, 6, because 1 + 5 = 6, thus only [3] left, so return 1
 [48, 20, 1, 3, 4, 6, 9, 24] -> remove 3, 6, 9, because 3 + 6 = 9, and remove 4, 20, 24, 48, because 4 + 20 + 24 + 48, thus only [1] left, so return 1
 int left(int[] nums){
 }
 }

14

Answers
 (/question?id=5191669463908352)

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The numbers on a telephone keypad are arranged thus:

14

Answers

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1 2 3
4 5 6
7 8 9
0

1
Answer
(/question?id=5716577684029440)

Starting from any digit, and choosing successive digits as a knight moves in chess, determine how many different paths can be formed of length n . There is no need to make a list of the paths, only to count them.

A knight moves two steps either horizontally or vertically followed by one step in the perpendicular direction; thus, from the digit 1 on the keypad a knight can move to digits 6 or 8, and from the digit 4 on the keypad a knight can move to digits 3, 9 or 0. A path may visit the same digit more than once.

Your task is to write a function that determines the number of paths of length n that a knight can trace on a keyboard starting from any digit .

```
public int findNumberOfPaths(int digit, int step){
```

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How do I design a Payment Gateway system? What are the things to consider in this design ?

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Answer
(/question?id=5130158150254592)



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In Docker, building an image has dependencies. An image can only be built once its dependency is built (If the dependency is from outside, then the image can be built immediately).

Sometimes, engineers make mistakes by forming a cycle dependency of local images.

In this case, ignore the cycle and all the images depending on this cycle.

Input is vector of pair of images (image, its dependency).

Output the order of images to be built in order.

##Example:

...

Example 1:

```
{{"master", "ubuntu"}, {"numpy", "master"}, {"tensorflow", "numpy"}}
```

Output: master, numpy, tensorflow

Example 2:

```
{{"python", "numpy"}, {"numpy", "python"}, {"tensorflow", "ubuntu"}}
```

Output: tensorflow

Example 3:

```
{{"b", "c"}, {"c", "d"}, {"a", "b"}, {"d", "e"}, {"e", "c"}, {"f", "g"}}
```

Output: f

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There are n servers, reboot time is $S_0, S_1 \dots S_{n-1}$
There are m tasks, the completion of the time required are $T_0, T_1 \dots T_{m-1}$
How to assign tasks to each server makes the total time the shortest

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5
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If you are given 2 infinitely large integers in the form of strings, given the length of the string, find the product of the two integers.

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5
Answers
(/question?id=5697371865350144)

How will you multiply two infinitely large integers.



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2

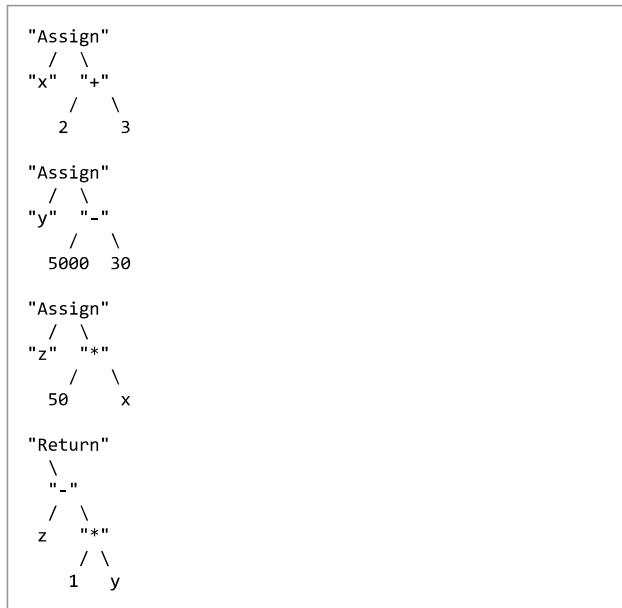
Answers
(/question?id=5766097516101632)



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Given a list/array of "Assign" trees with integers, operators and variables, return the result of the requested "Result" tree expression.

Example:



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You are given logs that contain user and page visits for a given day.

u1 -> p4

u3 -> p2

u7 -> p9

...

comeup with efficient data structure that answers these queries

Which page was visited by exactly 100 users in day?

Which page was visited by only one user exactly 15 times in a day?

Which page was visited by u3 more than 20 times in a day?

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8

Answers
(/question?id=6246739957776384)



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Given a sorted array A, find how many subsets of A satisfies $\text{MIN}(\text{subset}) + \text{MAX}(\text{subset}) < K$.

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21

Answers
(/question?id=5631681179418624)



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Convert Json string to Map

public Map jsonToMap(String t) {

}

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5

Answers
(/question?id=5716937353986048)



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What if server is slow, how to solve
What if one server is down

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2

Answers
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Given a 2D matrix of 0's and 1's, where the 1's make up a rectangle, find the coordinates of the top-left corner of the rectangle and the rectangle's width and height.

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4

Answers
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Array has N integers, range[0...N-1]. Set S[k], 0 <= K < N as S[K] = {A[K], A[A[K]], A[A[A[K]]],...}, write a function returns the size of the largest set S[K] for this array. return 0 if empty.

ex:

A = [5, 4, 0, 3, 1, 6, 2]

return 4 because S[2] equals {0, 5, 6, 2} 4 elements

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Answers
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0
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Given an array of integers and a target number, determine if an arithmetic expression using these integers can be evaluated to the target number, you are allowed to use '+', '-', '*', '/'. Follow-up: when evaluating the expression, take operand precedence into account, public boolean getTarget(int[] nums, int target){ }

exponentia is ok

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3

Answers
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Given a list of input tasks to run, and the cooldown interval, output the minimum number of time slots required to run them.

// Tasks: 1, 1, 2, 1, 2

// Recovery interval (cooldown): 2

// Output: 8 (order is 1 _ _ 1 2 _ 1 2)

=====

Tasks are task numbers in that order coming in for execution. Cooling time is time interval required to cool down the machine after executing a task. So it's like if CPU executed task 1 then it needs 2 cooling time intervals before executing another task 1 but meanwhile, it can execute other tasks which are not same as 1 and so on. So before executing any task, you have to check if you have executed same task number before and if yes, then if its cooling time interval is done or not.

The output is basically the number of cycles/time slots CPU took to execute these tasks in that order (including when task executed and cooling intervals).

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6

Answers
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find the Closest leaf to a given node in Binary Tree

can you do it in o(n) time

public TreeNode findClosestLeafNode(TreeNode root, TreeNode target){}

no parent pointer

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8

Answers
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validate IP in string format and return the uint32 format

'1.2.3.4' -> 0x01020304

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