



Leetcole -1007 Medium

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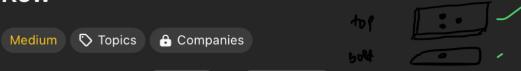


## They this channel to See Life Behind The Scenes ...

## Motivation Of the Day:

Look around yourself, you have a home and a room where you can study. Think about them with such facilities. Who are not blessed with such facilities. What you've got. Make it count. You got this.

## 1007. Minimum Domino Rotations For Equal Row



In a row of dominoes, tops[i] and bottoms[i] represent the top and bottom halves of the  $i^{th}$  domino. (A domino is a tile with two numbers from 1 to 6 on each half of the tile.)

We may rotate the ith domino, so that tops[i] and bottoms[i] swap values.

Return the minimum number of rotations so that all the values in tops are the same, or all the values in bottoms are the same.

Example 1:	
	Original Configuration of Dominoes
tops:	
bottoms:	
	Dominoes after rotations
tops:	
bottoms:	
<pre>Input: tops = [2,1,2,4,2,2], bottoms = [5,2,6,2,3,2] Output: 2 Explanation: The first figure represents the dominoes as given by tops and bottoms: before we do any rotations.</pre>	
If we rotate the second and fourth dominoes, we can make every value in the top row equal to 2, as indicated by the second figure.	

hought Process

Whenever a problem has a small, limited set of possible values (like 1 to 6), it's often hinting that you can afford bruk-force over those

values -> Greedily.

- · Dominoes → 1-6
- . Dice → 1-6
- · Conds -> 52 conds (13 ranks \* 4 suits = 52 conds)
- · Days of weeks, months -> 7 days, 12 months etc.
- . Directions → E, W, N,S, up, down, left, xight
- · Vowels -> a,e,i,o, v (5 vowels)
- Digit based → 0-9 digits / Pin etc.

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tops = 
$$[2, 1, 2, 4, 2, 2]$$
 topswap=1

$$\Rightarrow$$
 1, 2, 3, 4,  $(\varsigma, 6)$ 

for (
$$val = 1$$
;  $val < = 6$ ;  $val + +$ ) {  $o(1)$   
int steps = find (top. bottom.  $val$ );  $e o(n)$   
if ( $steps = -1$ ) {  
 $stepult = min (steple: steps):$   
 $stepult = min (steps):$   
 $stepult = min (steps):$ 

```
eck of Collis
                     swap top ++;
11 check for bottom
                                e o(n)
for (i=0; i<n; i++) f
     i) (top [i] ! = val &c bottom [i] ! = val) }
      3 elkij (both [i] !=val) {
            sway bottom ++;
```

return min (swap top, swapbottom):

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Check in one for 100P: ( 15 ) Croh ton for (i = 0; i<n; i++)

```
ij (top[i] != val && bottom(i] != val) {

return -!;

letse ij (top[i] != val) {

swaptop ++;

letse ij (bottom(i) != val) {

swaptop ++;

yelse ij (bottom(i) != val) {

swaptop ++;

y

return min (swaptop, twap bottom);
```



