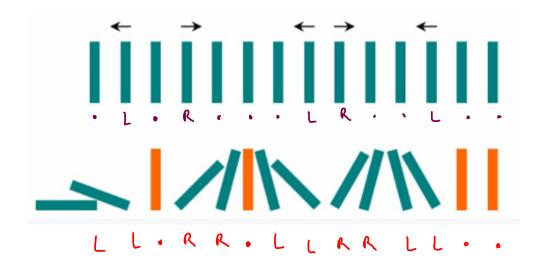
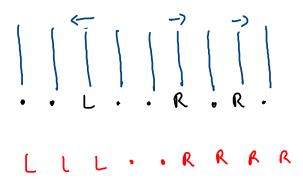
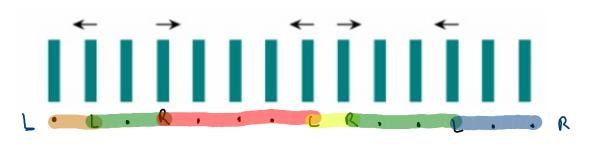
838. Push Dominoes







(ase 2: L...L -> LLLLL $(\omega) \in 2: \quad L \cdot \cdot \cdot \cdot R \longrightarrow L \cdot \cdot \cdot \cdot R$ case 3: R - . . . R case y: R. · · · L RRR. LLL RRRLLL

```
public String pushDominoes(String dominoes) {
    String str = 'L' + dominoes + 'R';
    StringBuilder sb = new StringBuilder(str);
   int i = 0;
   while(i < str.length()-1) {</pre>
        int j = i+1;
        while(j < str.length() && str.charAt(j) == '.') {</pre>
            j++;
        //solve i to j
        solve(sb,i,j);
        i = i:
   //remove extra 'L', 'R' which were initially added
    sb.deleteCharAt(0);
    sb.deleteCharAt(sb.length()-1);
    return sb.toString();
```

".L.R...LR..L..

```
public static void solve(StringBuilder sb.int i.int i) {
   if(sb.charAt(i) == 'L' && sb.charAt(j) == 'L') {
       for(int k = i+1; k <= j-1;k++) {
           sb.setCharAt(k,'L');
   else if(sb.charAt(i) == 'L' && sb.charAt(j) == 'R') {
       //no changes
   else if(sb.charAt(i) == 'R' && sb.charAt(j) == 'R') {
       for(int k = i+1; k \le j-1; k++) {
           sb.setCharAt(k,'R');
   else if(sb.charAt(i) == 'R' && sb.charAt(i) == 'L') {
       while(i < j) {
           sb.setCharAt(i,'R');
           sb.setCharAt(j,'L');
           i++;
           j--;
```

L. RR.LL RRLL.

Output: "LL.RR.LLRRLL.."

L.L.R. LLR.L.R

Hard ⓑ 921 **ॎ** 1111 ♥ Add to List **ⓑ** Share

Given an integer n, return the number of ways you can write n as the sum of consecutive positive integers.

Input:
$$n = 15$$

Output: 4

Explanation: 15 = 8 + 7 = 4 + 5 + 6 = 1 + 2 + 3 + 4 + 5

$$-)$$
 9, 4+5, 2+3+4

5 → 5, 2 + 3

3 15:
$$4+5+6$$

15: $1+2+3+4+5$
 $x + (x+1) + (x+2) + (x+3) + \dots + (x+k-1) \ge N$
 $1 + (x+1) + (x+3) + \dots + (x+k-1) \ge N$
 $1 + (x+1) + (x+3) + \dots + (x+k-1) \ge N$
 $1 + (x+1) + (x+3) + \dots + (x+k-1) \ge N$
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 $1 + (x+1) + (x+1) + (x+1) + \dots + (x+k-1) \ge N$
 $1 + (x+1) + (x+1) + (x+1) + (x+1) + \dots + (x+k-1) \ge N$
 $1 + (x+1) + (x+1)$

k = 1 15 = 15

15 = 7 + 8

K2+K < 2N

K = 2

K = 3

1 = 5

15 = 15

$$x \rightarrow s$$
 starting turn in a representation

15 = 7 + 8

 $x + (x+1) + (x+2) + \dots + (x+k-1) \ge N$

15 = 1 + 2 + 3 + 4 + 5

 $x + (x+1) + (x+2) + \dots + (x+k-1) \ge N$
 $x + (x+1) + (x+2) + \dots + (x+k-1) \ge N$
 $x + (x+1) + (x+2) + \dots + (x+k-1) \ge N$
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 $x + (x+1) + (x+2) + \dots + (x+k-1) \ge N$
 $x + (x+1) + (x+2) + \dots + (x+k-1) \ge N$
 $x + (x+1) + (x+1) + (x+1) + \dots + (x+k-1) \ge N$
 $x + (x+1) + (x+1)$

K- no. of turns used to

represent N.

$$1 \le N - 1 \le (1 \le 1)$$

$$2 \le 2 N - 1 \le 2 + 1 \le 1$$

112+K = 2N

N = 15

ıs

53. Maximum Subarray

Easy ☐ 17695 □ 842 □ Add to List □ Share

Given an integer array nums, find the contiguous subarray (containing at least one number) which has the largest sum and return its sum.

A **subarray** is a **contiguous** part of an array.

Input: nums =
$$[-2,1,-3,4,-1,2,1,-5,4]$$

ladane's algo

-) max sum subarray in

o(n)

$$a = 3$$
 $1 = -2$
 $1 = -2$
 $1 = -2$
 $1 = -2$
 $1 = -2$
 $1 = -2$

(Sum = -2)

(Sum = arx[i])

(Sum = arx[i])

(Sum = max (msum, (sum))

1191. K-Concatenation Maximum Sum

Given an integer array arr and an integer k, modify the array by repeating it k times.

For example, if arr = [1, 2] and k = 3 then the modified array will be [1, 2, 1, 2, 1, 2].

do it without creating 'B', in O(N)

$$A = [1,2]$$
, $K = 3$

$$B = [1,2,1,2,1,2]$$
Conratenated array

$$A = [-2, -1, 4]$$
 $1 = 5$

$$B = -2, -1, 4, -2, -1, 4, -2, -1, 4$$