

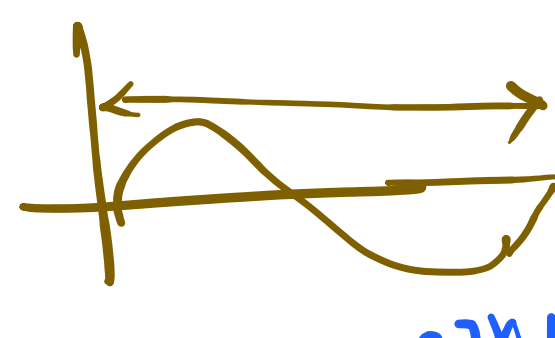
[1, 2, 3, 4, 5, 6, 7] → K=3

5, 6, 7, 1, 2, 3, 4

3 4 5 6 7 1 2

[1, 2, 3, 4, 5, 6, 7] K=3

K=1 7 1 2 3 4 5 6  
K=2 6 7 1 2 3 4 5  
K=3 5 6 7 1 2 3 4  
K=4 4 5 6 7 1 2 3  
K=5 3 4 5 6 7 1 2  
K=6 2 3 4 5 6 7 1  
K=7 1 2 3 4 5 6 7  
K=8 7 1 2 3 4 5 6  
K=9 6 7 1 2 3 4 5  
K=10 5 6 7 1 2 3 4

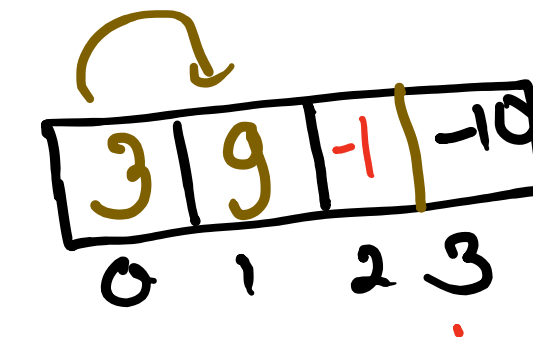


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K = K % N

N=4

g ← item = arr[n-1]



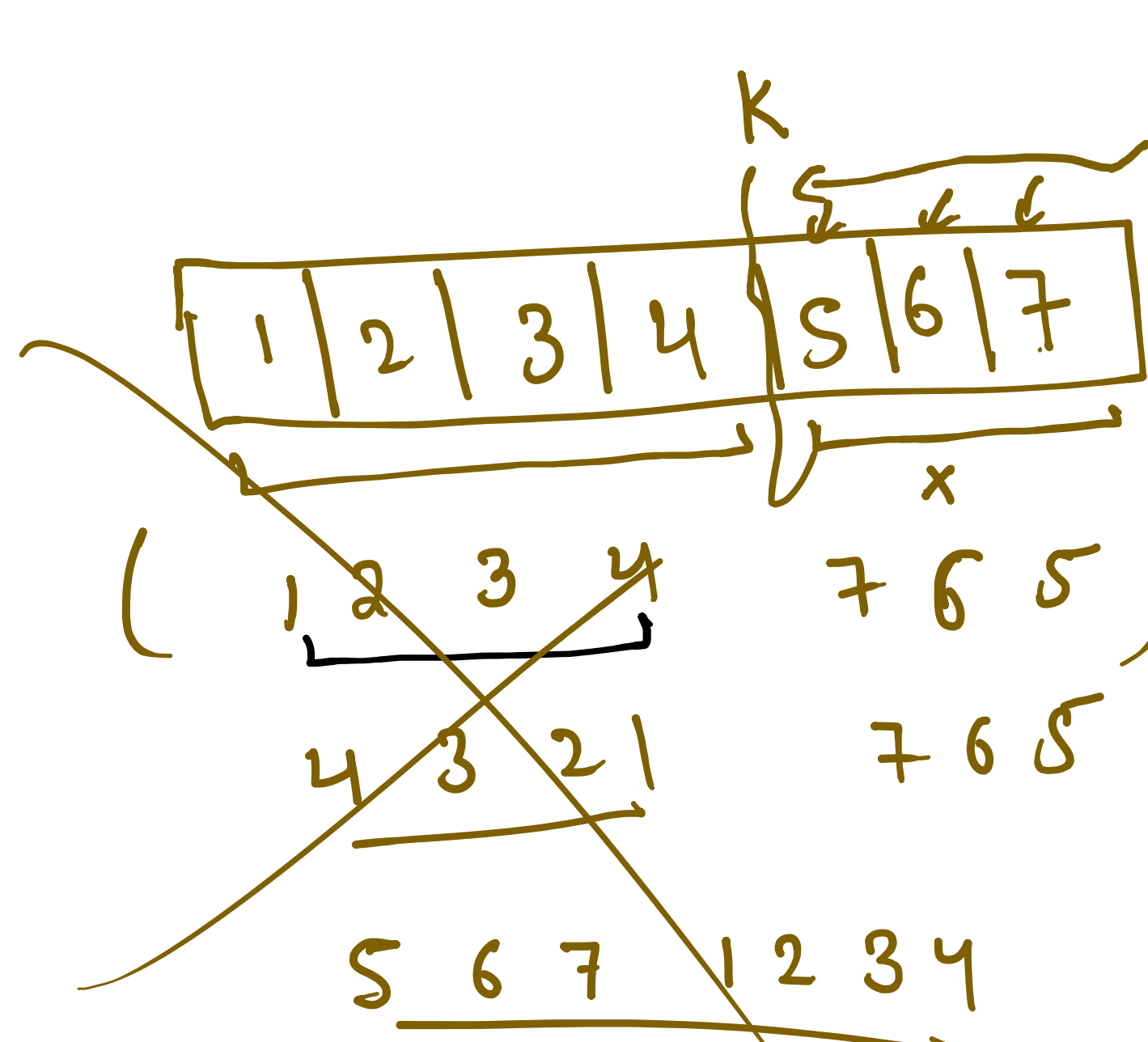
K=6

i = n-2; i >= 0; i--  
arr[i+1] = arr[i]

K = 6 % 4 = 2  
item = arr[3] → 3

arr[3] = arr[2]  
arr[2] = arr[1]  
arr[1] = arr[0]  
arr[0] = item

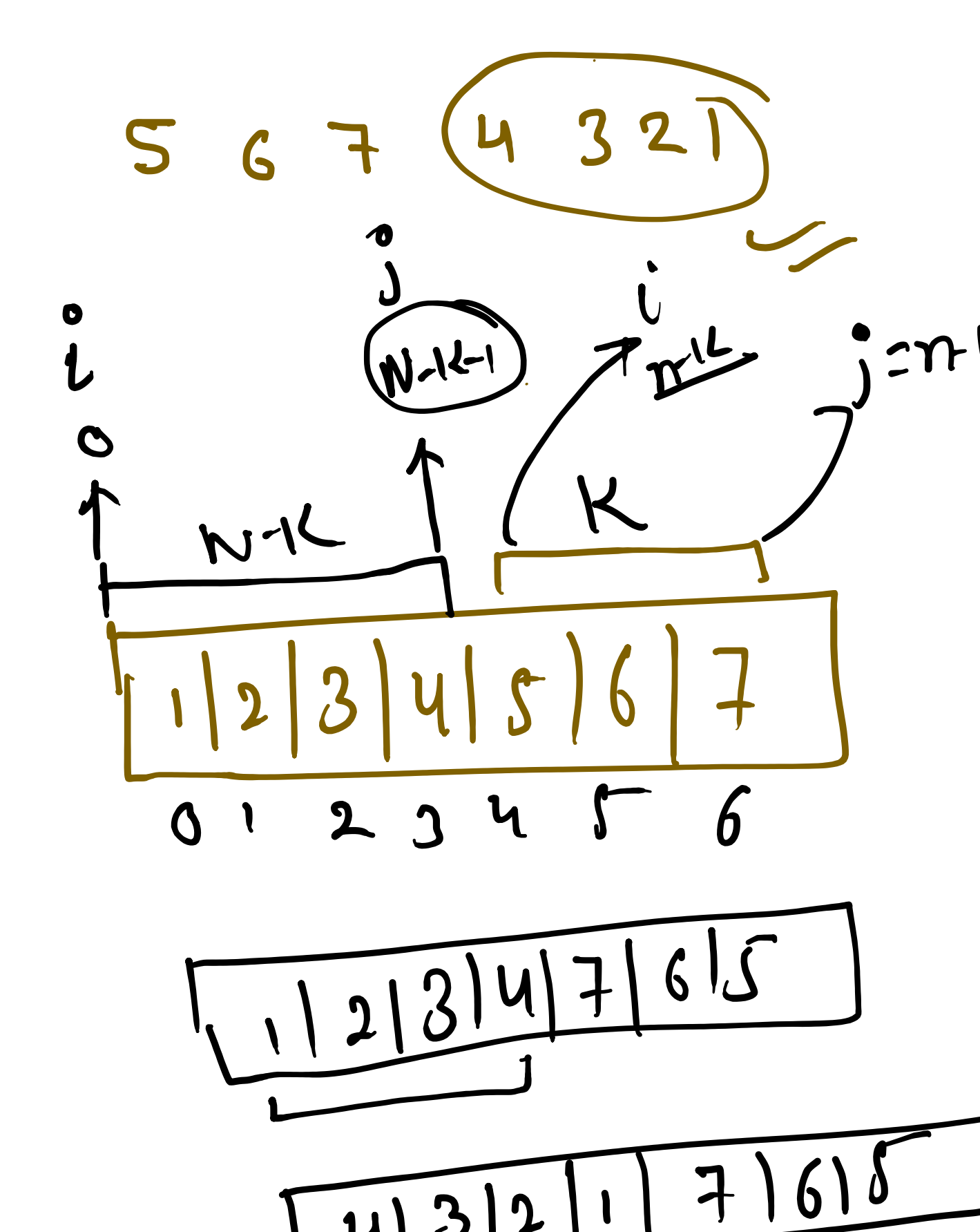
```
public static void Rotate(int[] arr, int k) {
    int n = arr.length;
    k = k % n;
    for (int j = 1; j <= k; j++) {
        // 1st Rotation ka Code
        int item = arr[n-1];
        for (int i = n-2; i >= 0; i--) {
            arr[i+1] = arr[i];
        }
        arr[0] = item;
    }
}
```



K=3

N=7

7-3=4



N=7

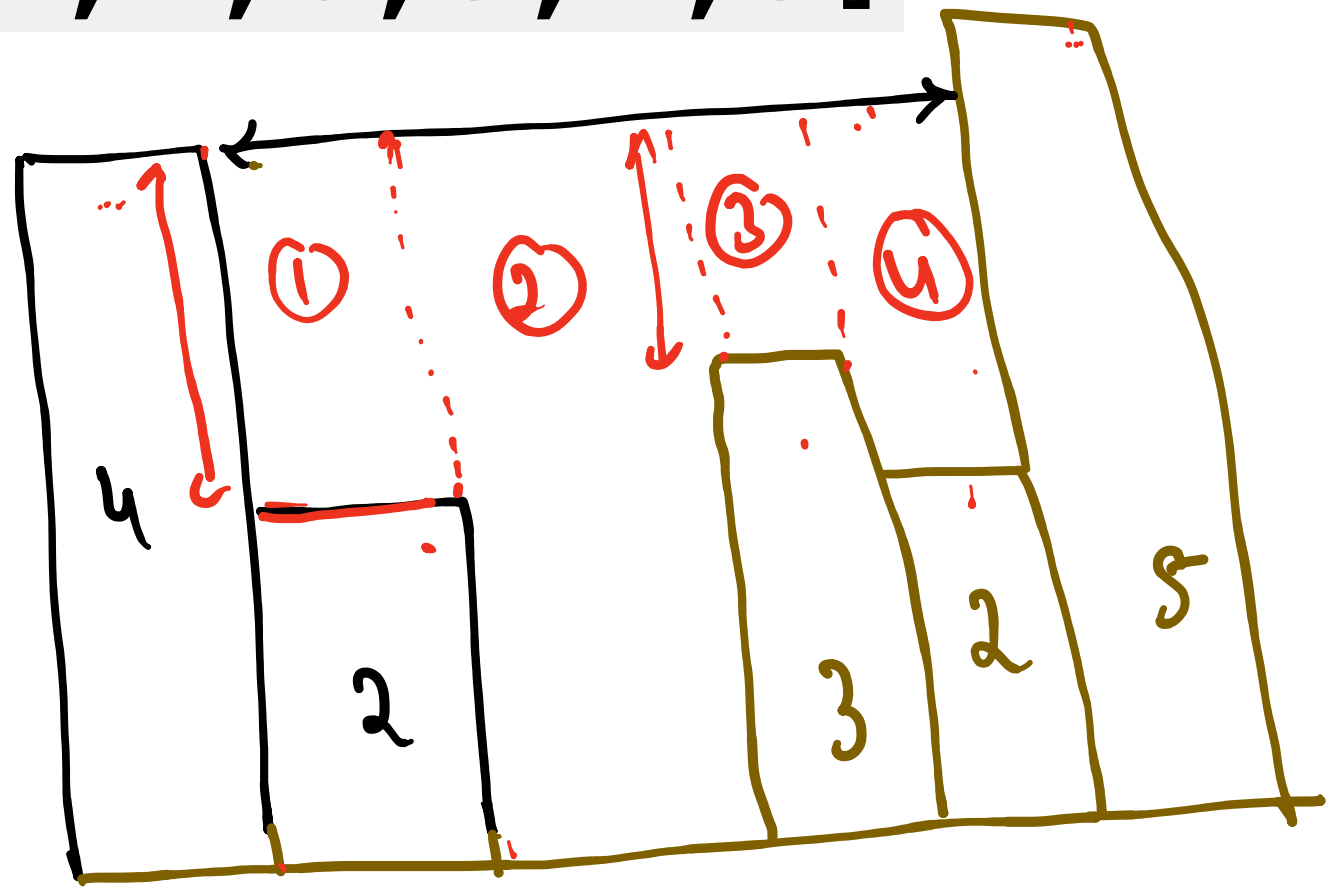
K=3

N=7

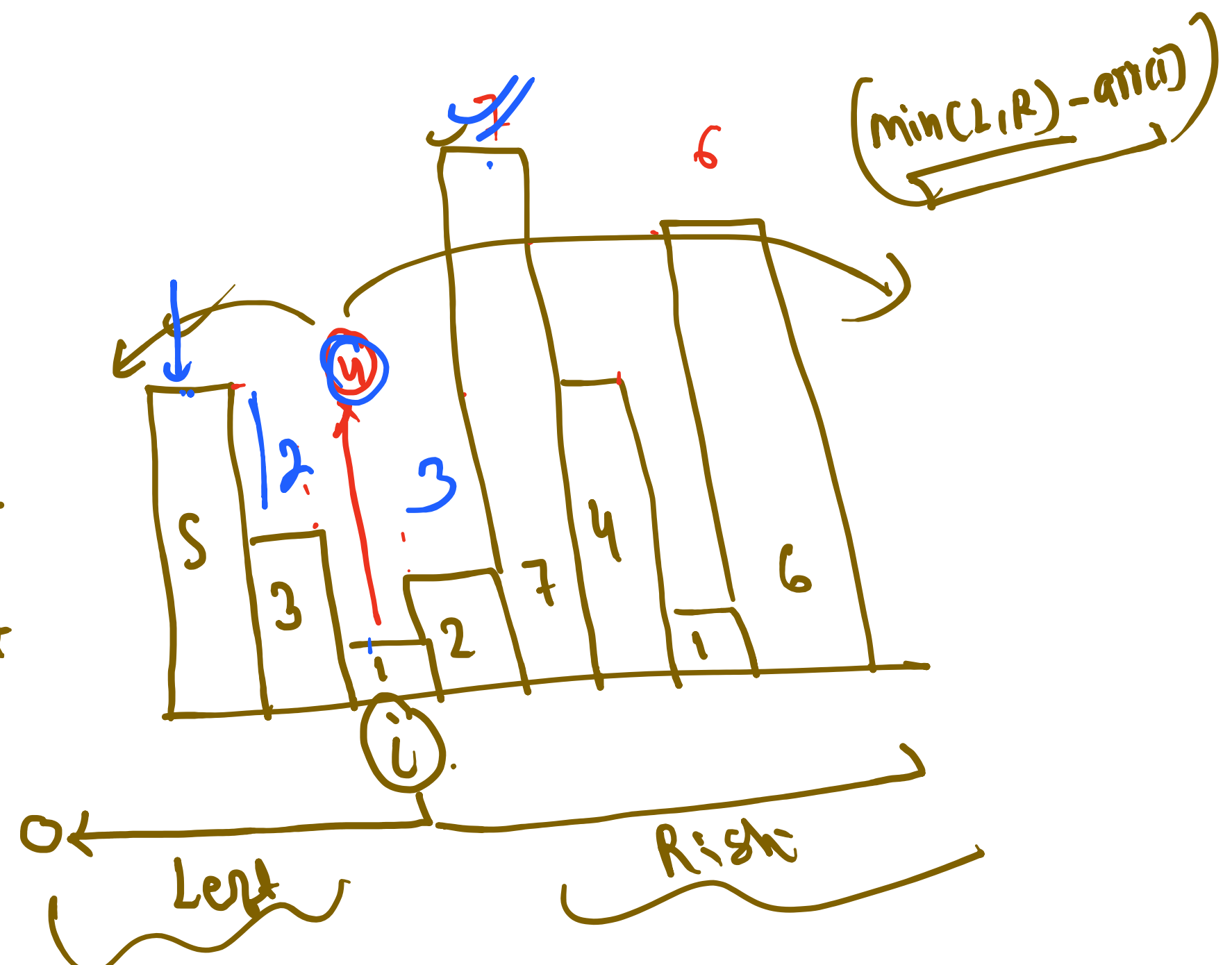
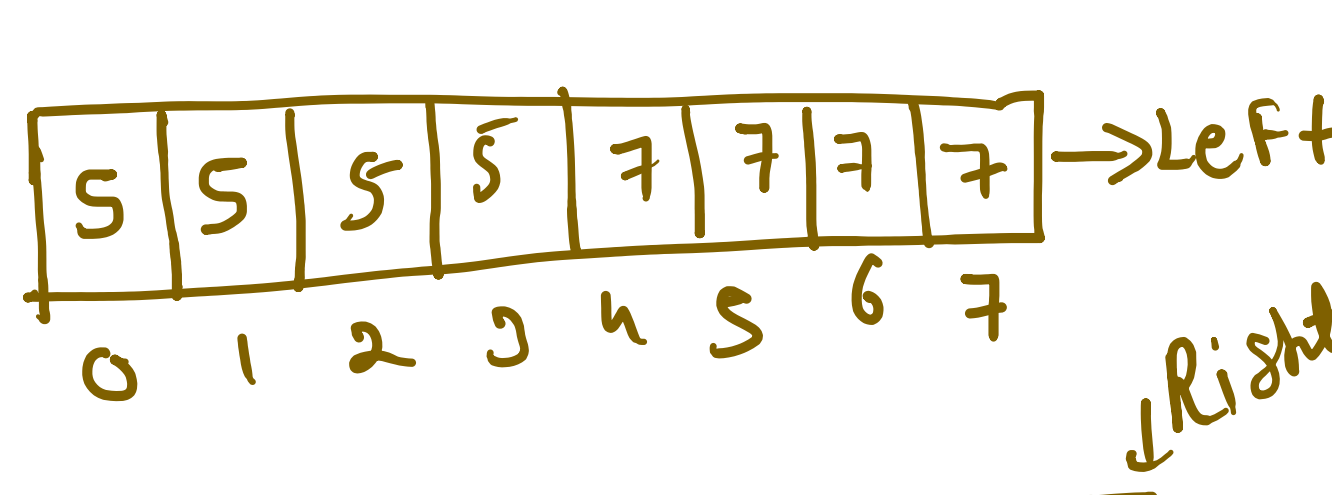
7-3=4

5 6 7 1 2 3 4

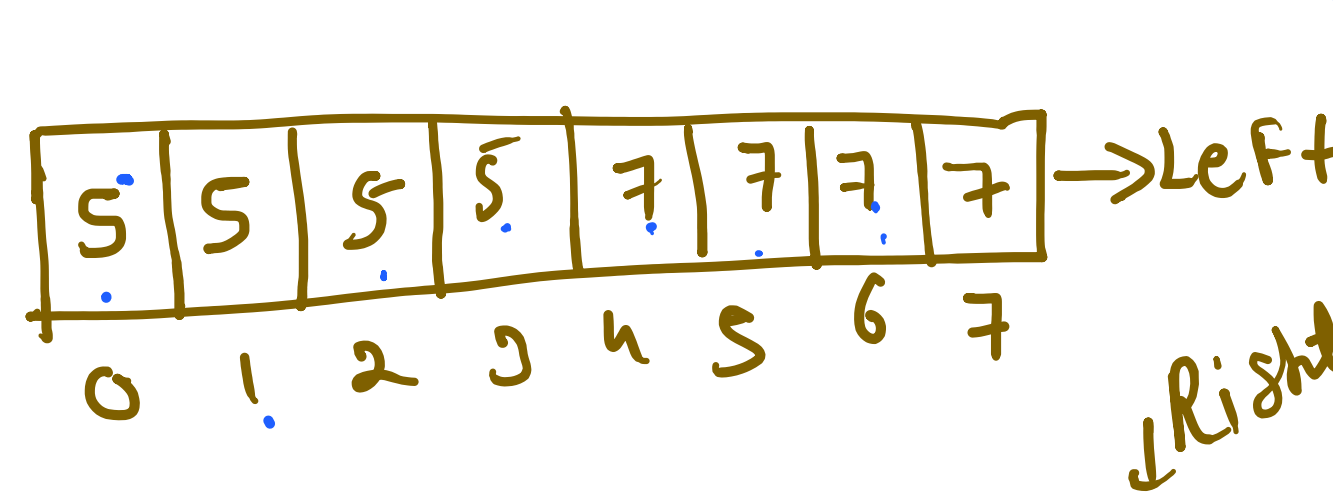
Input: height = [4, 2, 0, 3, 2, 5]  
Output: 9



[5, 3, 1, 2, 7, 4, 1, 6]  
0 1 2 3 4 5 6 7

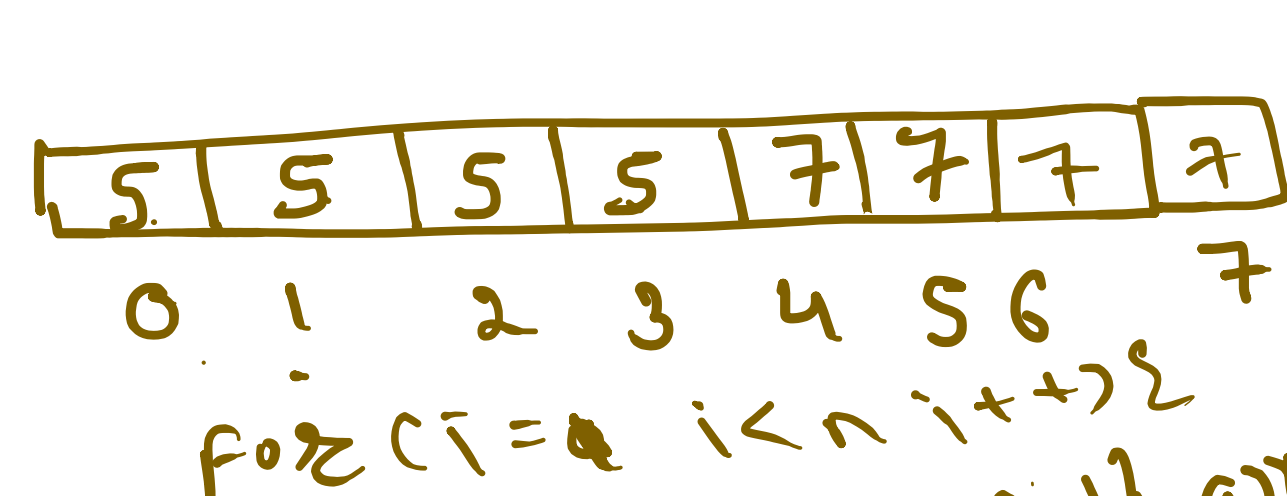


[5, 3, 1, 2, 7, 4, 1, 6]  
0 1 2 3 4 5 6 7



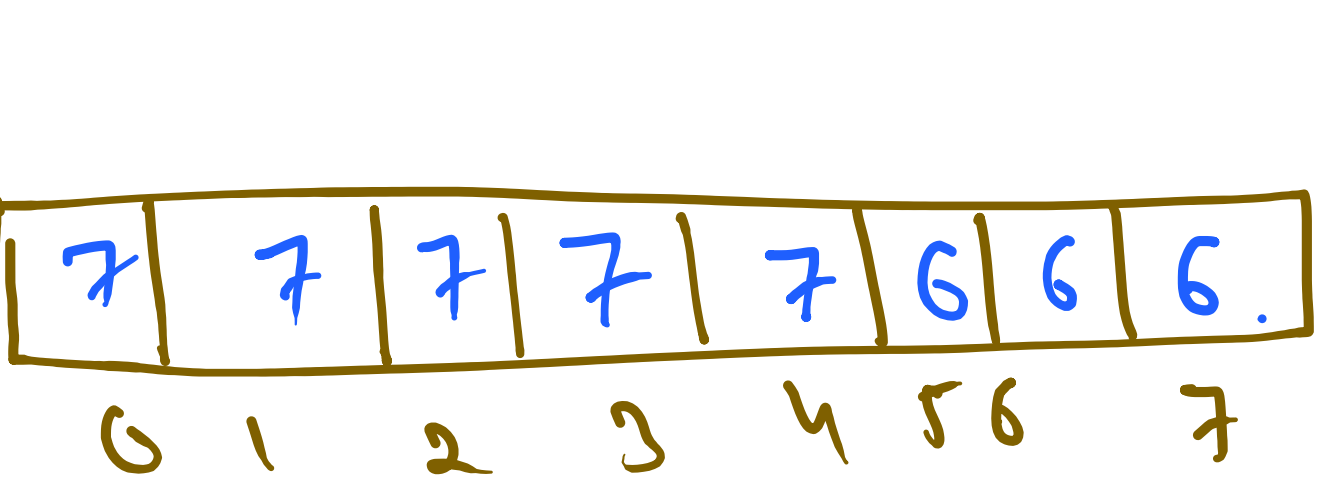
i=0 min[Left(0), Right(0)] - arr[0] = (5, 7) - 5 = 0  
i=1 min[Left(1), Right(1)] - arr[1] = (5, 7) - 3 = 2  
i=2 min[Left(2), Right(2)] - arr[2] = (5, 7) - 1 = 4  
i=3 min[Left(3), Right(3)] - arr[3] = (5, 7) - 2 = 3  
i=4 min[Left(4), Right(4)] - arr[4] = (7, 7) - 7 = 0  
i=5 min[Left(5), Right(5)] - arr[5] = (7, 6) - 4 = 2  
i=6 min[Left(6), Right(6)] - arr[6] = (7, 6) - 1 = 5  
i=7 min[Left(7), Right(7)] - arr[7] = (3, 6) - 6 = 0

[5, 3, 1, 2, 7, 4, 1, 6]  
0 1 2 3 4 5 6 7



i=1 Left(1) = max(Left(0), arr[1])  
i=2 Left(2) = max(Left(1), arr[2])  
i=3 Left(3) = max(Left(2), arr[3])  
i=4 Left(4) = max(Left(3), arr[4])  
i=5 Left(5) = max(Left(4), arr[5])  
i=6 Left(6) = max(Left(5), arr[6])  
i=7 Left(7) = max(Left(6), arr[7])

[5, 3, 1, 2, 7, 4, 1, 6]  
0 1 2 3 4 5 6 7

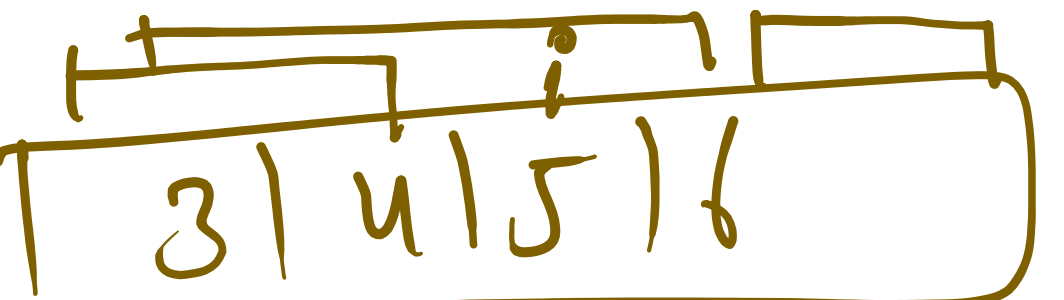


i = n-2; i >= 0; i--  
Right(i) = max(Right(i+1), arr[i])

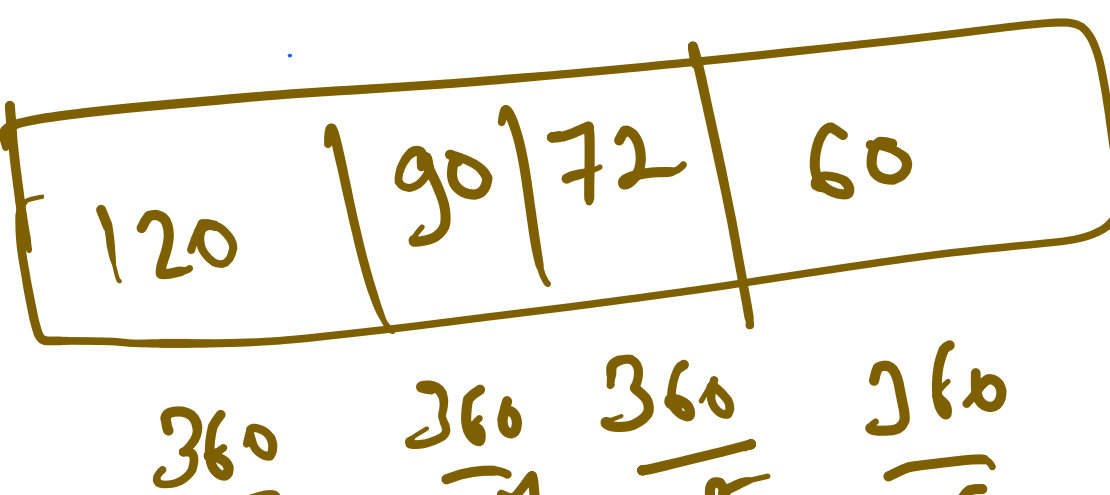
Right(i) = arr[n-1]

i=6 Right(6) = max(Right(7), arr[6])  
i=5 Right(5) = max(Right(6), arr[5])  
i=4 Right(4) = max(Right(5), arr[4])  
i=3 Right(3) = max(Right(4), arr[3])  
i=2 Right(2) = max(Right(3), arr[2])  
i=1 Right(1) = max(Right(2), arr[1])  
i=0 Right(0) = max(Right(1), arr[0])

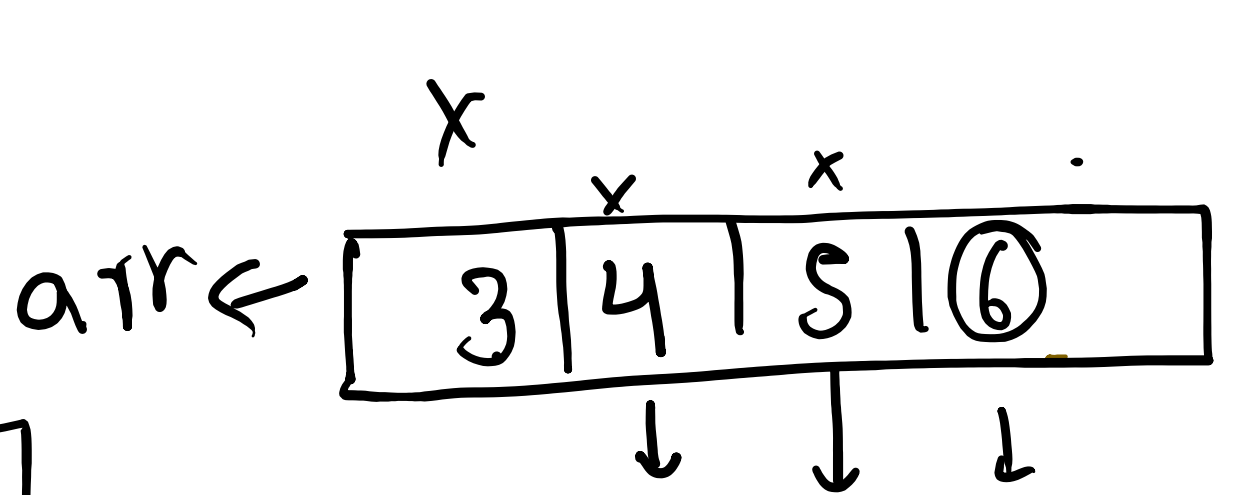
#



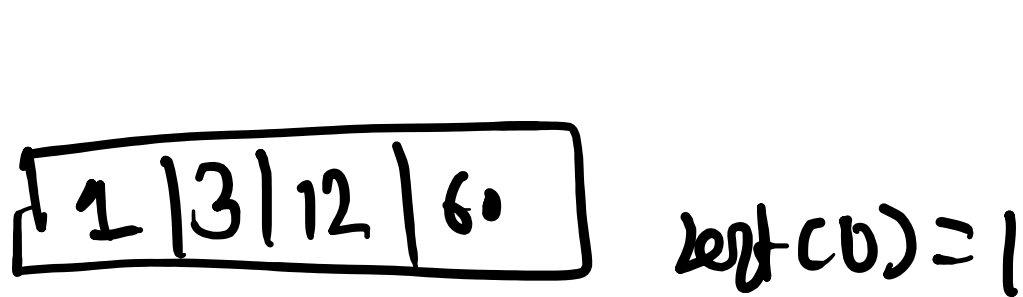
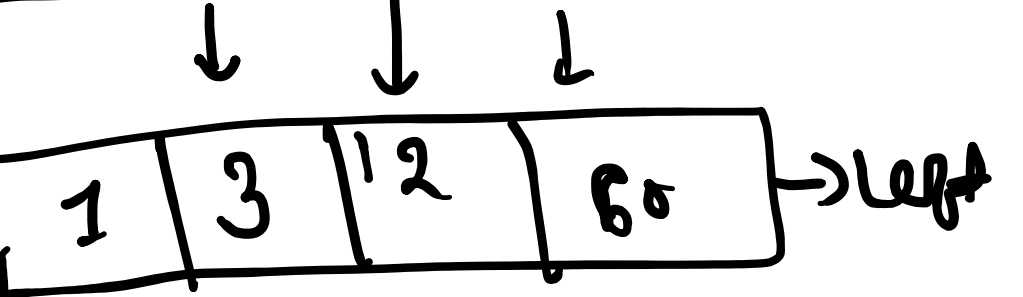
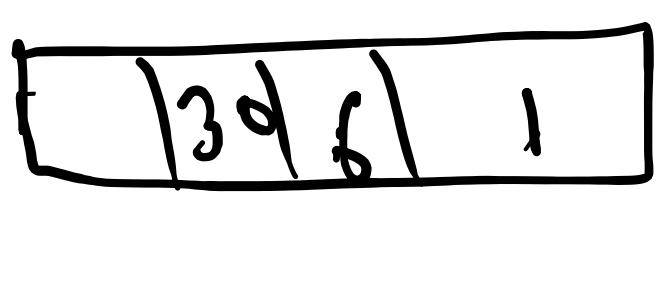
360



i=0 → 1  
i=1 → 2  
i=2 → 3  
i=3 → 4



Left(i) = Left(i) \* Right(i)



Right(3) = Right(3) \* arr[3]

Right(2) = Right(2) \* arr[2]

Right(1) = Right(1) \* arr[1]

Right(0) = Right(0) \* arr[0]

Left(0) \* Right(0)

Left(1) \* Right(1)

Left(2) \* Right(2)

Left(3) \* Right(3)

Left(1) = Left(0) \* arr[0]

Left(2) = Left(1) \* arr[1]

Left(3) = Left(2) \* arr[2]

Left(4) = Left(3) \* arr[3]