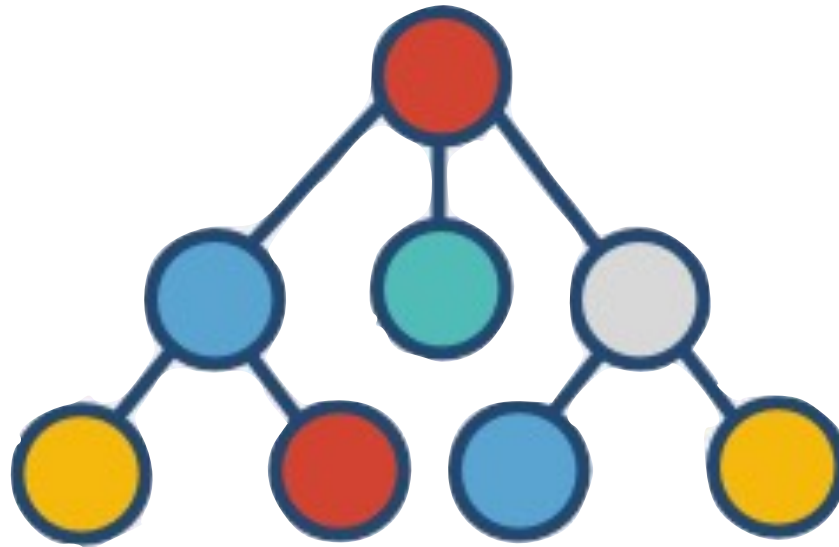


DATA STRUCTURE & ALGORITHMS



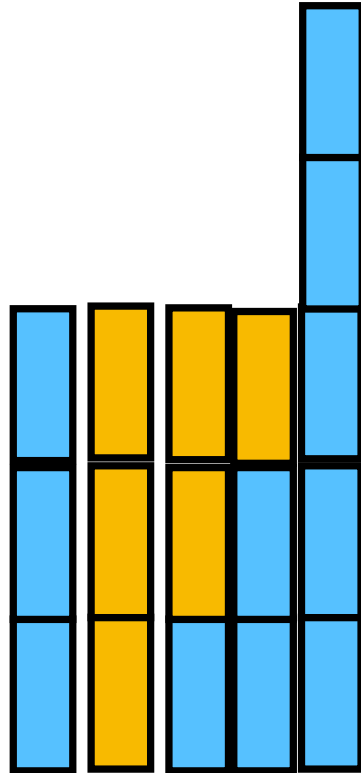
(By Prince Agarwal)
(“HELLO WORLD”)

LEETCODE

 Trapping Rain Water

3	0	1	2	5
---	---	---	---	---

N = 5



Hello world

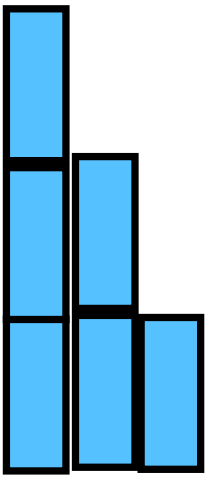
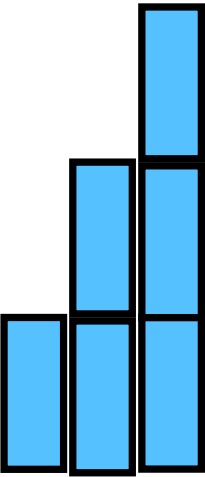
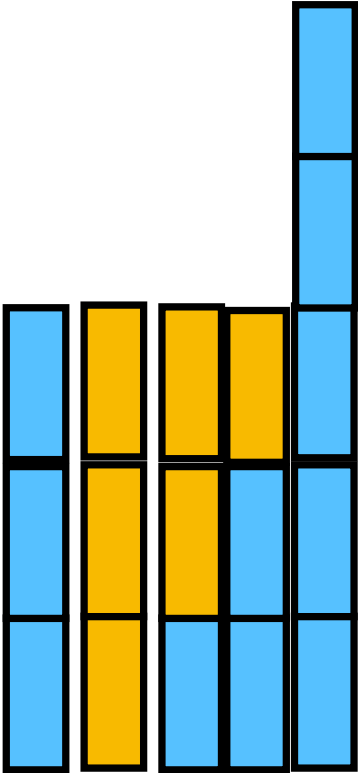
LEETCODE



Trapping Rain Water

3	0	1	2	5
---	---	---	---	---

N = 5



Hello world

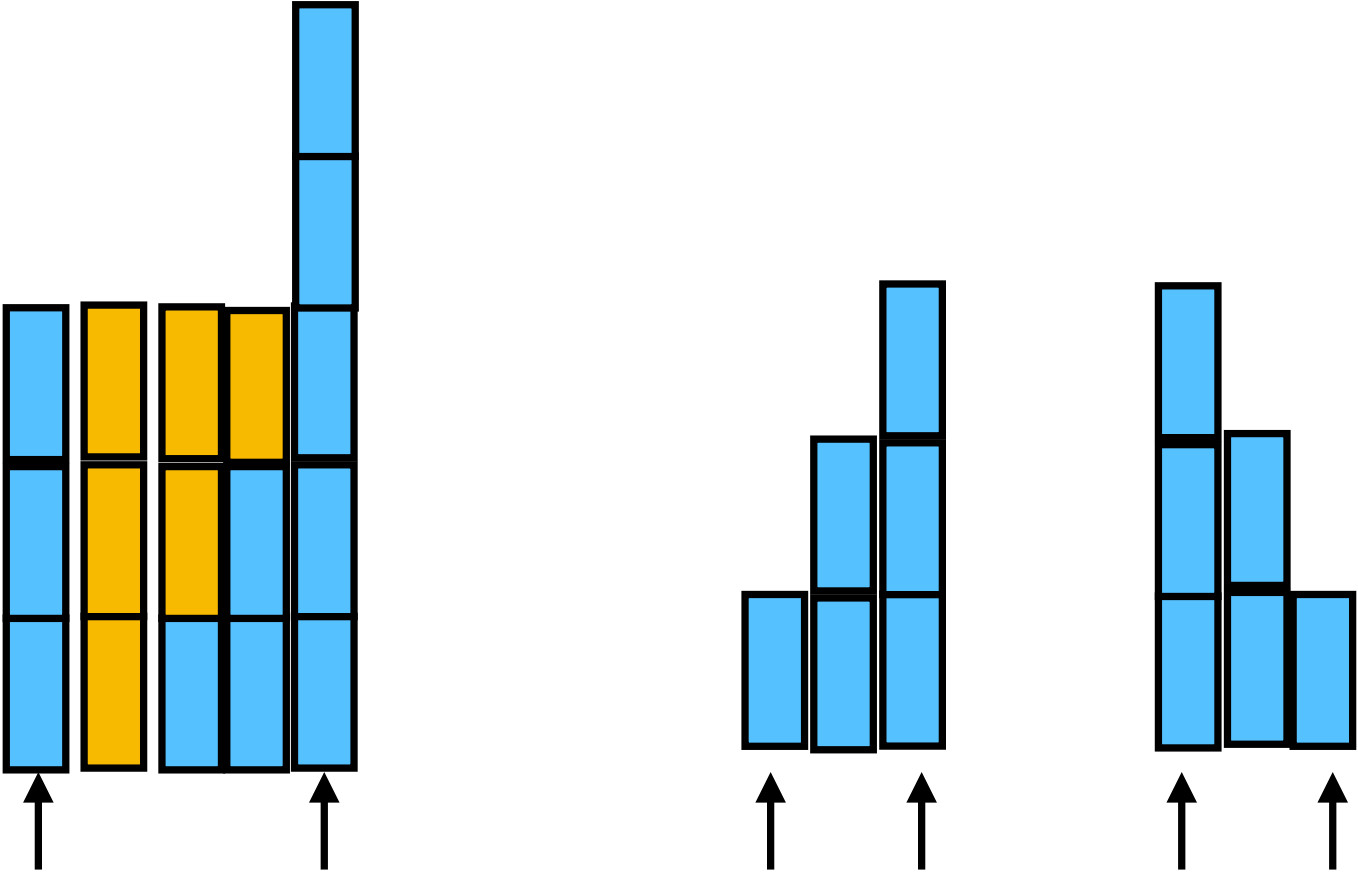
LEETCODE



Trapping Rain Water

3	0	1	2	5
---	---	---	---	---

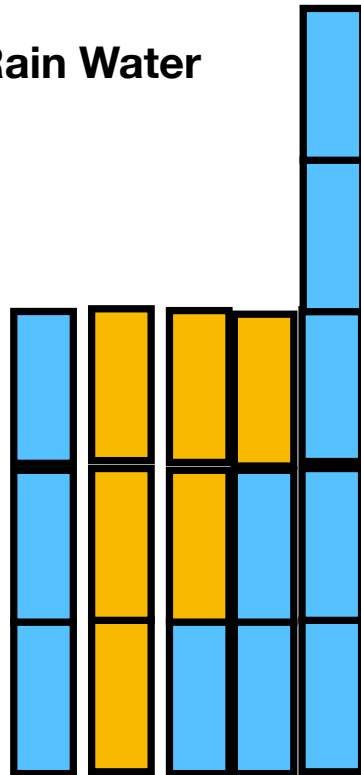
N = 5



Hello world

LEETCODE

Trapping Rain Water



3	0	1	2	5
---	---	---	---	---

$N = 5$

Lmax or rmax
(Left maximum or right maximum)

Lmax = 3

rmax = 5

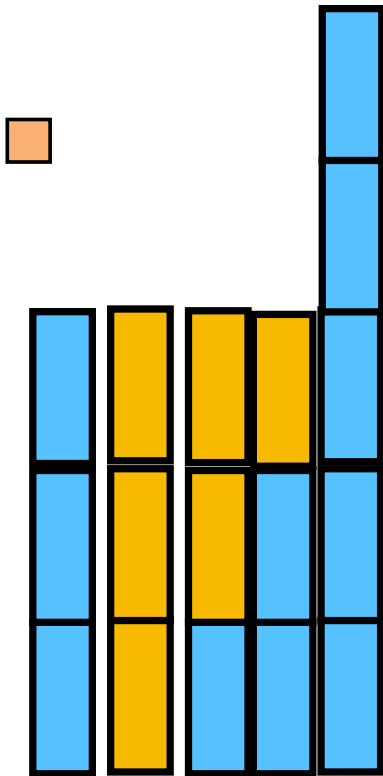
Min (lmax, rmax) = 3

$3 - \text{arr}[i] // 3 - 1 = 2$

At particular index Water stored is = Min (lmax, rmax) - arr[i]

Hello world

LEETCODE



Trapping Rain Water

```

int trappingWater (int arr[], int n)
{
    int water = 0;
    for (int i = 1; i < n - 1; i++)
    {
        int lmax = arr[i];
        for (int j = 0; j < i; j++)
            lmax = max(lmax, arr[j]);

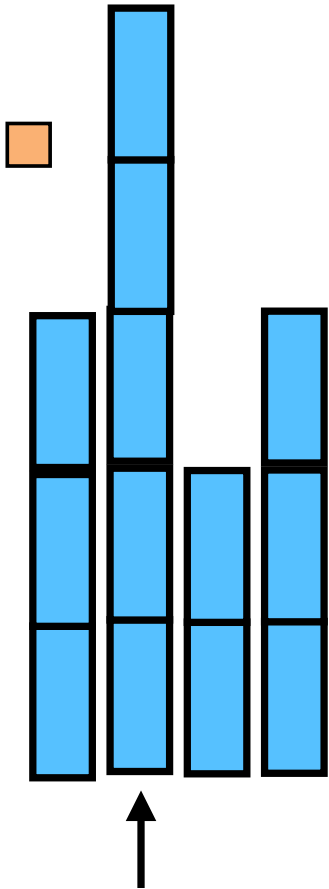
        int rmax = arr[i];
        for (int j = i + 1; j < n; j++)
            rmax = max(rmax, arr[j]);

        water = water + (min(lmax, rmax)
                        - arr[i]);
    }
    return water;
}

```

Scanned by TapScanner

Hello world



LEETCODE

```

int trappingWater (int arr[], int n)
{
    int water = 0;
    for (int i = 1; i < n - 1; i++)
    {
        int lmax = arr[i];
        for (int j = 0; j < i; j++)
            lmax = max(lmax, arr[j]);

        int rmax = arr[i];
        for (int j = i + 1; j < n; j++)
            rmax = max(rmax, arr[j]);

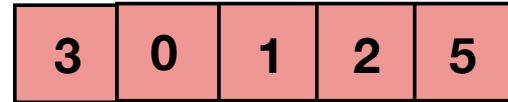
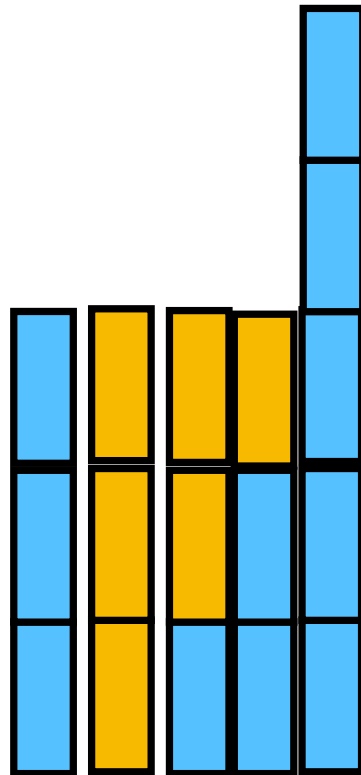
        water = water + (min(lmax, rmax)
                        - arr[i]);
    }
    return water;
}

```

Scanned by TapScanner

Hello world

LEETCODE



Lmax

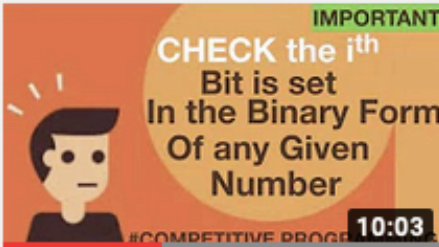




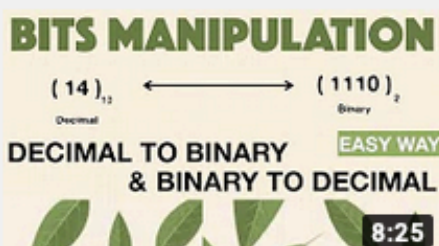
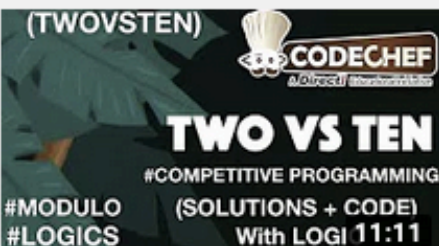










Rmax



At particular index Water stored is = $\text{Min}(\text{lmax}, \text{rmax}) - \text{arr}[i]$

Hello world

 <p>CHECK the i^{th} Bit is set In the Binary Form Of any Given Number</p> <p>IMPORTANT</p> <p>#COMPETITIVE PROGRAMMING 10:03</p>	 <p>COUNT THE NUMBER OF ONE'S PRESENT IN BINARY NUMBER</p> <p>VERY EASY</p> <p>#COMPETITIVE PROGRAMMING 13:44</p>	 <p>CHECK GIVEN NUMBER IS POWER OF 2 ?</p> <p>(FULL EXPLANATION WITH CODE)</p> <p>#BITWISE #BINARY</p> <p>15:28</p>	 <p>LEFT SHIFT RIGHT SHIFT BITWISE OPERATOR</p> <p>EASY WAY</p> <p>(PART - 02)</p> <p>15:24</p>	 <p>AND NOT XOR OR BITWISE OPERATOR</p> <p>EASY WAY</p> <p>(PART - 01)</p> <p>13:06</p>
<p>Check the i^{th} bit is set, in the binary form of given numbe...</p> <p>1.1K views • 1 year ago</p>	<p>Count the number of one's in binary representation of...</p> <p>1.6K views • 1 year ago</p>	<p>Check a given number is power of 2 Bitwise operato...</p> <p>3.2K views • 1 year ago</p>	<p>Left shift and right shift bitwise operator ...</p> <p>1.4K views • 1 year ago</p>	<p>Bitwise Operators AND NOT OR XOR Competitiv...</p> <p>1.8K views • 1 year ago</p>
 <p>BITS MANIPULATION</p> <p>DECIMAL TO BINARY & BINARY TO DECIMAL</p> <p>EASY WAY</p> <p>8:25</p>	 <p>TWO VS TEN</p> <p>#COMPETITIVE PROGRAMMING</p> <p>#MODULO #LOGICS</p> <p>(SOLUTIONS + CODE) With LOGI 11:11</p>	 <p>CHEF AND HIS DAILY ROUTINE</p> <p>(SOLUTIONS + CODE) With LOGI 12:56</p>	 <p>EUCLIDEAN ALGORITHM</p> <p>FINDING GCD OF TWO NUMBERS</p> <p>#COMPETITIVE PROGRAMMING</p> <p>12:31</p>	 <p>SEIVE OF ERATOSTHENES</p> <p>PART - 02 (CODE)</p> <p>#COMPETITIVE PROGRAMMING 12:01</p>
<p>Bits Manipulation Decimal to Binary Binary to Decimal...</p> <p>1.5K views • 1 year ago</p>	<p>Program of Two vs Ten Codechef - TWOVSTEN ...</p> <p>1.3K views • 1 year ago</p>	<p>Program of chef and his daily routine - CHEFROUT ...</p> <p>1.7K views • 1 year ago</p>	<p>Euclidean algorithm for finding GCD of 2 numbers ...</p> <p>2K views • 1 year ago</p>	<p>Sieve of Eratosthenes -part 2 Competitive programming...</p> <p>2.2K views • 1 year ago</p>
 <p>SEIVE OF ERATOSTHENES</p> <p>PART - 01 (LOGIC)</p> <p>#COMPETITIVE PROGRAMMING 8:38</p>	 <p>CONCEPT OF PRIME NUMBERS</p> <p>#COMPETITIVE PROGRAMMING 13:38</p>	 <p>USE OF MEMSET()</p> <p>#COMPETITIVE PROGRAMMING 12:00</p>	 <p>FANCY QUOTES</p> <p>#COMPETITIVE PROGRAMMING (SOLUTIONS + CODE) With LOGI 15:46</p>	 <p>STUDYING ALPHABET</p> <p>#COMPETITIVE PROGRAMMING (SOLUTIONS + CODE) With LOGIC 24:28</p>
<p>Sieve of Eratosthenes -part 1 Competitive programming...</p> <p>3.4K views • 1 year ago</p>	<p>Program and concept of prime numbers. ...</p> <p>2.1K views • 1 year ago</p>	<p>memset() function in C/C++ and its syntax. Competitiv...</p> <p>4.3K views • 1 year ago</p>	<p>problem of Fancy Quotes getline() in strings --FANCY...</p> <p>2.1K views • 1 year ago</p>	<p>Concept of Handling the String related problems -...</p> <p>3.4K views • 1 year ago</p>

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