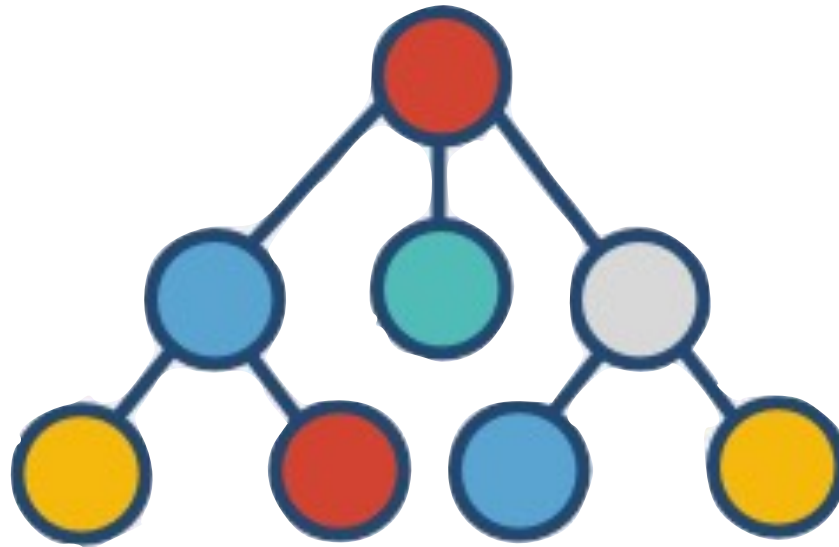


DATA STRUCTURE & ALGORITHMS



(By Prince Agarwal)
(“HELLO WORLD”)

INTERVIEW PREPARATION

 **Peak Element** [5, 10, 20, 15, 7]

Ans = 20

[10, 20, 15, 5, 23, 90]

Ans = 90

Array A[] = { 5, 70, 3, 10, 40, 30, 10, 2, 3 }



EVERY INDEPENDENT ARRAY HAS A PEAK ELEMENT

Hello world

INTERVIEW PREPARATION



Peak Element

[5, 10, 20, 15, 7]

Ans = 20

[10, 20, 15, 5, 23, 90]

Ans = 90

Array A[] = { 70, 60, 3, 10, 30, 40, 10, 2, 3 }



Hello world

INTERVIEW PREPARATION

Peak Element

[5, 10, 20, 15, 7]

Ans = 20

[10, 20, 15, 5, 23, 90]

Ans = 90

Array A[] = { 7, 60, 3, 10, 30, 40, 10, 2, 130 }



Hello world

INTERVIEW PREPARATION

```
if(n==1)
    return 0;
else if( n==2){
    int x = ( arr[0]>=arr[1] ) ? 0 : 1;
    return x;
}
else{
    if(arr[0]>=arr[1]){
        return 0;
    }

    if(arr[n-1]>=arr[n-2]){
        return n-1;
    }

    for(int i=1;i<n-1;i++){
        if(arr[i]>=arr[i-1] && arr[i]>=arr[i+1]){
            return i;
        }
    }
}
```

Hello world

INTERVIEW PREPARATION



Peak Element

[5, 10, 20, 15, 7]

signature

[10, 20, 15, 5, 23, 90]

signature

[7, 60, 3, 10, 30, 40, 10, 2, 130]

signature

[6, 16, 1, 2, 2, 1]

signature

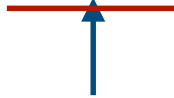
Hello world

INTERVIEW PREPARATION



Peak Element

[7, 60, 3, 10, 30, 40, 10, 2, 130]



Hello world

INTERVIEW PREPARATION



Peak Element

[7, 60, 3, 10, 30, 40, 10, 2, 130]



[40, 10, 2, 130]



[40, 10, 2, 130]



INTERVIEW PREPARATION



Peak Element

[7, 60, 3, 40, 30, 10, 10, 2, 130]



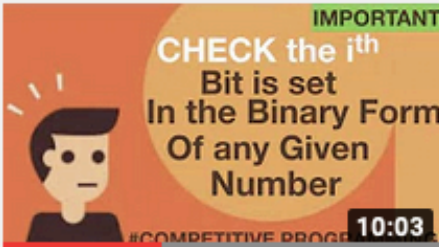




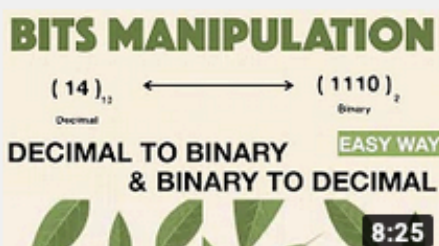
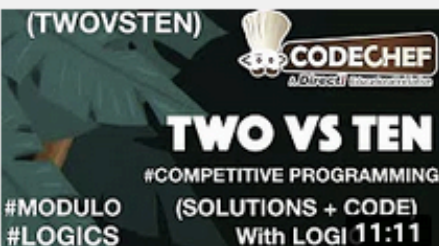








[7, 60, 3, 40]



[7, 60, 3, 40]



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>HW Hello World</p> <p>#COMPETITIVE PROGRAMMING 15:28</p>	 <p>LEFT SHIFT RIGHT SHIFT BITWISE OPERATOR</p> <p>EASY WAY</p> <p>(PART - 02)</p> <p>#COMPETITIVE PROGRAMMING 15:24</p>	 <p>AND NOT XOR OR BITWISE OPERATOR</p> <p>EASY WAY</p> <p>(PART - 01)</p> <p>#COMPETITIVE PROGRAMMING 13:06</p>
<p>Check the i^{th} bit is set, in the binary form of given number...</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 operator...</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 Competitive...</p> <p>1.8K views • 1 year ago</p>
 <p>BITS MANIPULATION</p> <p>(14)₁₀ ↔ (1110)₂</p> <p>Decimal Binary</p> <p>DECIMAL TO BINARY & BINARY TO DECIMAL</p> <p>EASY WAY</p> <p>#8:25</p>	 <p>(TWOVSTEN)</p> <p>TWO VS TEN</p> <p>#COMPETITIVE PROGRAMMING</p> <p>#MODULO #LOGICS</p> <p>(SOLUTIONS + CODE) With LOGI 11:11</p>	 <p>(CHEFROUT)</p> <p>CHEF AND HIS DAILY ROUTINE</p> <p>#COMPETITIVE PROGRAMMING</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 / Program of #Prime Numbers</p> <p>CONCEPT OF PRIME NUMBERS</p> <p>#COMPETITIVE PROGRAMMING 13:38</p>	 <p>VERY IMPORTANT CONCEPTS</p> <p>#memset() function #In C/C++</p> <p>USE OF MEMSET()</p> <p>#COMPETITIVE PROGRAMMING 12:00</p>	 <p>(FANCY)</p> <p>FANCY QUOTES</p> <p>#COMPETITIVE PROGRAMMING (SOLUTIONS + CODE) With LOGI 15:46</p> <p>#Strings #getline()</p>	 <p>(ALPHABET)</p> <p>#Clears String Concept #String</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. Competitive...</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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