

DSA SERIES

- Learn Coding



Topic to be Covered today

Bit Manipulation



LETS START TODAY'S LECTURE

AND OPERATION

231. Power of Two

```
class Solution {
public:
    bool isPowerOfTwo(int n) {
        if(n == 1 || n==2){
            return true;
        if(n<=0){
            return false;
       return (n&(n-1))==0;
};
```

2401. Longest Nice Subarray

```
class Solution {
public:
    int longestNiceSubarray(vector<int>& nums) {
        int result =1;
        int i = 0;
        int j = 0;
        int n = nums.size();
        int mask =0;
        while(j<n){</pre>
            while((mask&nums[j]) !=0){
                 mask = (mask^nums[i]);
                 i++;
            result = max(result,j-i+1);
            mask |= nums[j];
            j++;
        return result;
};
```

1318. Minimum Flips to Make a OR b Equal to c

```
class Solution {
public:
    int minFlips(int a, int b, int c) {
        int result = 0;
        while (a != 0 || b != 0 || c != 0) {
            if ((c & 1) == 1) {
                if ((a & 1) == 0 && (b & 1) == 0) {
                    result++;
            } else {
                if ((a & 1) == 1) {
                    result++;
                if ((b & 1) == 1) {
                    result++;
```

201. Bitwise AND of Numbers Range

```
class Solution {
  public:
    int rangeBitwiseAnd(int left, int right) {
      int shift = 0;
      while (left != right) {
         left = left >> 1;
         right = right >> 1;
         shift++;
      }
      return left << shift;
    }
};</pre>
```

231. Power of Two



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THANK YOU