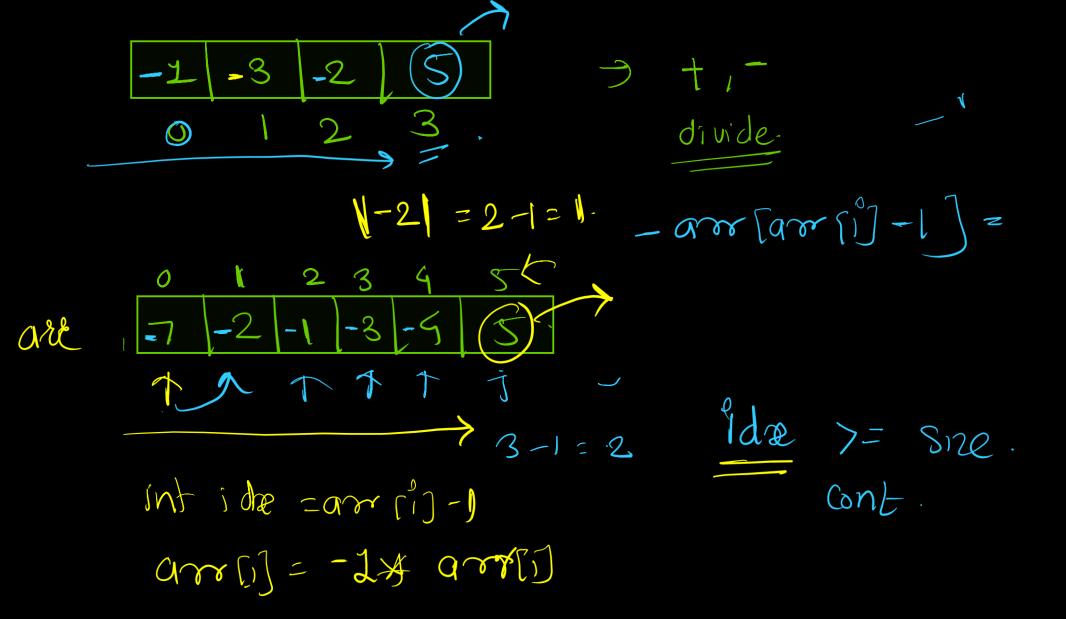
print odd betn 2 to n. gif num>10 check it's dugits $\left(\begin{array}{c} \cos \left(1\right) \\ \end{array}\right) = \underbrace{i+1}$

Arrays Sort (23456 $\{1,2,3,4\} = m =$ 1,213,4,5 O(nlogn)

further optimization medium pattern. y 1 to n → Sort -Ly indexes -> {1,3,2,4}



3) don't modify ormal > Madhs. 113/45 1 2 to n Sum 1st n natural namber Sum. 21-19=2

2 to 0 =
$$\frac{n \times (n+2)}{2}$$
 = $\frac{2n\pi}{2}$ = $\frac{m_{155ing}}{2}$ = $\frac{1}{2}$ =

```
// User function Template for Java
class Solution {
    int missingNumber(int arr[]) {
        // code here
        Arrays.sort(arr);
        for(int i = 0; i < arr.length; i++){
            if(arr[i] != i+1)return i+1;
        }
        return arr.length + 1;
    }
}</pre>
```

```
// User function Template for Java
class Solution {
   int missingNumber(int arr[]) {
      for(int i = 0; i < arr.length; i++){
        int idx = Math.abs(arr[i]) - 1;
        if(idx >= arr.length)continue;
        arr[idx] *= -1;
    }
   for(int i= 0; i < arr.length; i++)
   {
      if(arr[i] > 0)return i+1;
    }
   return arr.length + 1;
}
```

```
// User function Template for Java
class Solution {
    int missingNumber(int arr[]) {
        int n = arr.length + 1;
        int sum = 0;
        for(int i = 0; i < arr.length; i++){
            sum += arr[i];
        }
        int actualSum = (n * (n + 1))/2;
        return actualSum - sum;
    }
}</pre>
```

L) odd Eetum. if ele > 10 Sum = odd. n=15 13579 10 12 16

$$2+3+4+5 = 14$$
 $234 \neq 231$
 $2345/0 = 10)2345$
 20

num/00 = last Digit
 30

num/10 = Quotient
 45
 45
 40
 57
 57

Sum while (num >0) { 3 dig = num / lo num = num / lo } sum + = dig

num = 6 Sum = 5+4+8 2 = 14

```
public class PrintOddTCS {
      new *
      public static void main(String[] args) {
            int n = 15;
            for(int \underline{i} = 1; \underline{i} <= n; \underline{i} ++){
                 if(\underline{i} > 9){
                       int \underline{num} = \underline{i};
                       int \underline{sum} = 0;
                       while(num > 0){
                             sum += (num % 10);
                             \underline{\text{num}} = \underline{\text{num}} / 10;
                       if((\underline{sum} \% 2) == 1) System.out.print(\underline{i} + " ");
                 else{
                       if((\underline{i} \% 2) == 1)System.out.print(\underline{i} + "");
```