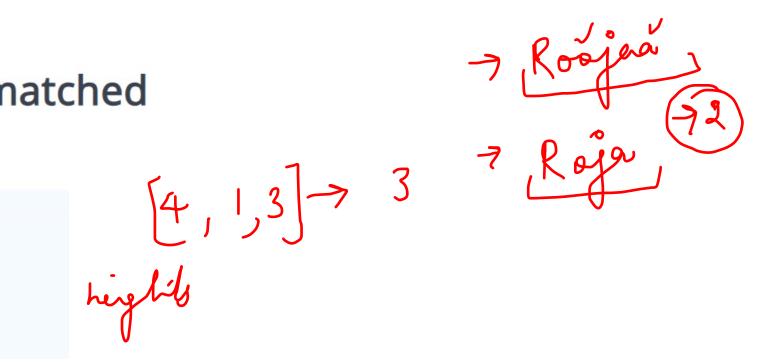
HW_Counting Mismatched



```
public static int mismatch(int height[], int n){
     int expected[] = Arrays.copyOf(height, n);
     Arrays.sort(expected);
     // compare and count
     int count = 0;
     for(int i = 0; i < n; i++){
        rif(height[i] != expected[i]){
            count++;
     return count;
                           i=0,1 =1 F
TC+ O(nlegn)+n
```

```
Scanner s = new Scanner(System.in);
int n = s.nextInt()

int arr[] = new int[n];
int even[] = new int[n/2];
int odd[] = new int[n/2];
int evencount = 0;
int oddcount = 0;

for(int i = 0; i < n; i++){
    arr[i] = s.nextInt();
    if(arr[i] % 2 == 0){
        even[evencount++] = arr[i];
    }

else{
    odd[oddcount++] = arr[i];
}</pre>
```

1=4

```
Arrays.sort(even);
  Arrays.sort(odd);
  // create an result array
  int result[] = new int[n];
  int evenindex = 0;
  int oddindex = 1;
  // place even numbers
 for(int i = 0; i < evencount; i++){</pre>
      result[evenindex] = even[i];
      evenindex += 2;
  // place odd numbers
  for(int i = 0; i < oddcount; i++){
      result[oddindex] = odd[i];
      oddindex += 2;
  // print result array
  for(int i = 0; i < n; i++){
      System.out.print(result[i] + " ");
TC7 O (nlogn) +n
SC >0(n)
```

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