5467. Find a Value of a Mysterious Function Closest to Target

ons (/contest/weekly-contest-198/problems/find-a-value-of-a-mysterious-function-closest-to-target/submissions/)

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User Accepted:	0
User Tried:	2
Total Accepted:	0
Total Submissions:	2
Difficulty:	Hard

```
func(arr, l, r) {
    if (r < l) {
        return -1000000000
    }
    ans = arr[l]
    for (i = l + 1; i <= r; i++) {
        ans = ans & arr[i]
    }
    return ans
}
```

Winston was given the above mysterious function `func`. He has an integer array `arr` and an integer `target` and he wants to find the values `l` and `r` that make the value `|func(arr, l, r) - target|` minimum possible.

Return *the minimum possible value* of `|func(arr, l, r) - target|`.

Notice that `func` should be called with the values `l` and `r` where `0 <= l, r < arr.length`.

Example 1:

```
Input: arr = [9,12,3,7,15], target = 5
Output: 2
Explanation: Calling func with all the pairs of [l,r] = [[0,0],[1,1],[2,2],[3,3],[4,4],[0,
```

Example 2:

```
Input: arr = [1000000,1000000,1000000], target = 1
Output: 999999
Explanation: Winston called the func with all possible values of [l,r] and he always got 1
```

Example 3:

```
Input: arr = [1,2,4,8,16], target = 0
Output: 0
```

Constraints:

- `1 <= arr.length <= 10^5`
- `1 <= arr[i] <= 10^6`
- `0 <= target <= 10^7`

JavaScript

```
/**
 * @param {number[]} arr
 * @param {number} target
 * @return {number}
 */
var closestToTarget = function(arr, target) {

};
```

Custom Testcase Use Example Testcases