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5851. Find Unique Binary String

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Given an array of strings `nums` containing n **unique** binary strings each of length n , return *a binary string of length* n *that* **does not appear** *in* `nums` *. If there are multiple answers, you may return* **any** *of them*.

User Accepted:	0
User Tried:	0
Total Accepted:	0
Total Submissions:	0
Difficulty:	Medium

Example 1:

```
Input: nums = ["01","10"]
Output: "11"
Explanation: "11" does not appear in nums. "00" would also be correct.
```

Example 2:

```
Input: nums = ["00","01"]
Output: "11"
Explanation: "11" does not appear in nums. "10" would also be correct.
```

Example 3:

```
Input: nums = ["111","011","001"]
Output: "101"
Explanation: "101" does not appear in nums. "000", "010", "100", and "110" would also be correct.
```

Constraints:

- `n == nums.length`
- `1 <= n <= 16`
- `nums[i].length == n`
- `nums[i]` is either `'0'` or `'1'` .

JavaScript ▼

```javascript
 1▾ const findDifferentBinaryString = (nums) => {
 2      let n = nums.length;
 3      let se = new Set();
 4▾     for (const s of nums) {
 5          let tmp = parseInt(s, 2);
 6          // pr(tmp);
 7          se.add(tmp);
 8      }
 9      let a = [...se];
10      a.sort((x, y) => x - y);
11      let min = a[0], max = a[a.length - 1];
12      // pr(a, min, max);
13▾     for (let x = min + 1; x < max; x++) {
14          let s = x.toString(2);
15          if (!se.has(x) && s.length == n) return s;
16      }
17      let res = (max + 1).toString(2);
18      let res2 = (min - 1).toString(2);
19      // pr("res1", res, n)
```

```
20 ▾      if (res.length < n) {
21            res = '0'.repeat(n - res.length) + res;
22            return res;
23 ▾      } else if (res.length == n) {
24            return res;
25 ▾      } else {
26            // pr("res2", res2)
27            if (res2.length < n) res2 = '0'.repeat(n - res2.length) + res2;
28            return res2;
29        }
30    };
```

☐ **Custom Testcase**   (Use Example Testcases)

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Submission Result: Accepted (/submissions/detail/542207409/) ❓   (More Details ❯ (/submissions/detail/542207409/))

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