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5942. Finding 3-Digit Even Numbers

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You are given an integer array digits, where each element is a digit. The array may contain duplicates.

You need to find **all** the **unique** integers that follow the given requirements:

- The integer consists of the concatenation of three elements from digits in any arbitrary order.
- The integer does not have leading zeros.
- The integer is even.

For example, if the given digits were [1, 2, 3], integers 132 and 312 follow the requirements.

Return a sorted array of the unique integers.

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

Example 1:

Input: digits = [2,1,3,0]

Output: [102,120,130,132,210,230,302,310,312,320]

Explanation:

All the possible integers that follow the requirements are in the output array.

Notice that there are no odd integers or integers with leading zeros.

Example 2:

Input: digits = [2,2,8,8,2]

Output: [222,228,282,288,822,828,882]

Explanation:

The same digit can be used as many times as it appears in digits.

In this example, the digit 8 is used twice each time in 288, 828, and 882.

Example 3:

Input: digits = [3,7,5]

Output: [] **Explanation:**

No even integers can be formed using the given digits.

Example 4:

Input: digits = [0,2,0,0]

Output: [200] **Explanation:**

The only valid integer that can be formed with three digits and no leading zeros is 200.

Example 5:

Input: digits = [0,0,0]

Output: [] **Explanation:**

All the integers that can be formed have leading zeros. Thus, there are no valid integers.

Constraints:

- 3 <= digits.length <= 100
- 0 <= digits[i] <= 9

United States (/region)

Finding 3-Digit Even Numbers - LeetCode Contest JavaScript 1 v const findEvenNumbers = (a) ⇒ { let n = a.length, res = new Set(); for (let i = 0; i < n; i++) { 3 ▼ 4 ▼ for (let j = i + 1; j < n; j++) { for (let k = j + 1; k < n; k++) {
let x = a[i] + '', y = a[j] + '', z = a[k] + ''; 5 ▼ 6 7 let one = x + y + z, two = x + z + y, three = y + x + z; 8 let four = y + z + x, five = z + x + y, six = z + y + x; 9 if (ok(one)) res.add(one); 10 if (ok(two)) res.add(two); if (ok(three)) res.add(three); 11 12 if (ok(four)) res.add(four); 13 if (ok(five)) res.add(five); 14 if (ok(six)) res.add(six); 15 } 16 } 17 } 18 return [...res].map(Number).sort((x, y) \Rightarrow x - y); 19 }; 20 $21 \vee const ok = (s) \Rightarrow \{$ if (s[0] == '0') return false; 22 let x = s - '0'; 23 24 return x % 2 == 0; 25 }; ☐ Custom Testcase Use Example Testcases Run ♠ Submit Submission Result: Accepted (/submissions/detail/597077162/) ? More Details > (/submissions/detail/597077162/) Share your acceptance! Copyright © 2021 LeetCode Help Center (/support) | Jobs (/jobs) | Bug Bounty (/bugbounty) | Online Interview (/interview/) | Students (/student) | Terms (/terms) | Privacy Policy (/privacy)