Problem Link:

<https://leetcode.com/problems/finding-3-digit-even-numbers/?envType=daily-question&envId=2025-05-28>

Solution:

class Solution {

public:

vector<int> findEvenNumbers(vector<int>& digits) {

vector<int> m(10, 0);

for(int d : digits)

m[d]++;

set<int> s;

for(int d1 = 1; d1 <= 9; ++d1)

{

if(m[d1] == 0)

continue;

m[d1]--;

for(int d2 = 0; d2 <= 9; ++d2)

{

if(m[d2] == 0)

continue;

m[d2]--;

for(int d3 = 0; d3 <= 9; ++d3)

{

if(m[d3] == 0 || d3 % 2 != 0)

continue;

int num = d1 \* 100 + d2 \* 10 + d3;

s.insert(num);

}

m[d2]++;

}

m[d1]++;

}

return vector<int>(s.begin(), s.end());

}

};