Problem Link:

<https://leetcode.com/problems/count-number-of-maximum-bitwise-or-subsets/description/?envType=daily-question&envId=2025-07-28>

Solution:

class Solution {

public:

int m = 0, cnt = 0;

void dfs(vector<int>& nums, int i, int c) {

if(i == nums.size())

{

if(c == m)

cnt++;

return;

}

dfs(nums, i + 1, c | nums[i]);

dfs(nums, i + 1, c);

}

int countMaxOrSubsets(vector<int>& nums) {

for(int num : nums)

{

m |= num;

}

dfs(nums, 0, 0);

return cnt;

}

};