

E. Even odd subset

time limit per test: 1 second
memory limit per test: 256 megabytes
input: standard input
output: standard output

given an array of size n . Count all subsets that have numbers of even greater than numbers of odds.

Input

the first line contains one integer n the size of array. ($1 \leq n \leq 20$).

The second line contains n numbers a_i ($1 \leq a_i \leq 10^9$).

Output

only one line contains the number of subsets that have numbers of even greater than numbers of odds.

Example

input	Copy
5 1 2 3 4 5	
output	Copy
6	

ICPC Assiut University Training - Standard - Juniors Phase 1

Public
Participant


→ Group Contests

- Standard #5 (Bits , bit-masking)
- Standard #4 (Binary search , two pointers)
- Standard #3 (set , sorting, compare function , map)
- Standard #2 (binary search , stack , queue, deque , priority queue)
- Standard #1 (Frequency , prefix sum , vector , pair ,struct)

Standard #5 (Bits , bit-masking .)

Finished
Practice


→ Virtual participation

Virtual contest is a way to take part in past contest, as close as possible to participation on time. It is supported only ICPC mode for virtual contests. If you've seen these problems, a virtual contest is not for you - solve these problems in the archive. If you just want to solve some problem from a contest, a virtual contest is not for you - solve this problem in the archive. Never use someone else's code, read the tutorials or communicate with other person during a virtual contest.

Start virtual contest

→ Submit?

Language: GNU G++20 11.2.0 (64 bit, w

Choose file: Choose File No file chosen

Submit

→ Last submissions

Submission	Time	Verdict
228213838	Oct/14/2023 22:07	Accepted
226798077	Oct/06/2023 00:10	Accepted
226796932	Oct/06/2023 00:08	Accepted
226796874	Oct/06/2023 00:07	Accepted
226795994	Oct/05/2023 23:54	Accepted
226794980	Oct/05/2023 23:38	Accepted
226794860	Oct/05/2023 23:37	Accepted