

GROUPS RATING EDU API CALENDAR HELP H0ME TOP CONTESTS GYM **PROBLEMSET** DELTIX ROUNDS 2021 👺

PROBLEMS SUBMIT STATUS STANDINGS CUSTOM TEST

C. Lose it!

time limit per test: 2 seconds memory limit per test: 256 megabytes input: standard input output: standard output

You are given an array a consisting of n integers. Each a_i is one of the six following numbers: 4, 8, 15, 16, 23, 42.

Your task is to remove the minimum number of elements to make this array good.

An array of length k is called **good** if k is divisible by 6 and it is possible to split it into $\frac{k}{a}$ subsequences 4, 8, 15, 16, 23, 42.

Examples of good arrays:

- [4, 8, 15, 16, 23, 42] (the whole array is a required sequence);
- [4,8,4,15,16,8,23,15,16,42,23,42] (the first sequence is formed from first, second, fourth, fifth, seventh and tenth elements and the second one is formed from remaining elements);
- [] (the empty array is good).

Examples of bad arrays:

- [4, 8, 15, 16, 42, 23] (the order of elements should be exactly 4, 8, 15, 16, 23, 42);
- [4, 8, 15, 16, 23, 42, 4] (the length of the array is not divisible by 6);
- [4, 8, 15, 16, 23, 42, 4, 8, 15, 16, 23, 23] (the first sequence can be formed from first six elements but the remaining array cannot form the required sequence).

Input

The first line of the input contains one integer n ($1 \le n \le 5 \cdot 10^5$) — the number of elements in a.

The second line of the input contains n integers a_1, a_2, \ldots, a_n (each a_i is one of the following numbers: 4, 8, 15, 16, 23, 42), where a_i is the i-th element of a.

Output

Print one integer — the minimum number of elements you have to remove to obtain a good array.

Examples

output

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Codeforces Round #565 (Div. 3)

Finished

→ 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





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Tutorial

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