Problem F. Colorful Balloons

Input file:	`standard input`
Output file:	`standard output`
Time limit:	1 second
Memory limit:	256 megabytes

Miss Burger is participating in the 2023 ICPC Asia Hefei Regional Contest. She wants to quickly solve the first blood problem by finding the easiest problem.

Miss Burger has observed the colors of all the balloons prepared by the volunteers in advance (It's not allowed, so please don't do that). If the number of balloons of a certain color is greater than 50% of the total number of balloons, then the problem represented by that color is considered the easiest problem. Each color is represented as a string consisting only of lowercase letters.

Now Miss Burger has provided you with the colors of all the balloons she saw and wants you to tell her which color represents the easiest problem.

Input

The first line contains an integer n ($1 \le n \le 10^5$), representing the total number of balloons Miss Burger saw.

The following n lines contain a string s_i ($1 \le |s_i| \le 10$), representing the color of a balloon, which consists only of lowercase letters.

Output

If the easiest problem is determined, output the color of the easiest problem.

If no the easiest problem can be determined, output "`uh-oh`" (without quotation marks).

Examples

standard input	standard output
5 red green red red blue	red
3 red blue yellow	uh-oh

Note

In the first example, Miss Burger saw 5 balloons, with colors "red", "green", "red", "red", and "blue". The problem represented by the color "red" appears 3 times, which is more than 50% of the total number of balloons, making it the easiest problem. Therefore, the output is "red".