Problem 1 – Stuck Numbers

You are given **n numbers**. Write a program to find among these numbers all sets of 4 numbers $\{a, b, c, d\}$, such that $a \mid b == c \mid d$, where $a \neq b \neq c \neq d$. Assume that " $a \mid b$ " means to append the number **b** after **a**. We call these numbers $\{a, b, c, d\}$ stuck numbers: if we append **a** and **b**, we get the same result like if we append **c** and **d**. Note that the numbers **a**, **b**, **c** and **d** should be distinct $(a \neq b \neq c \neq d)$.

Input

The input comes from the console. The first line holds the **count n**. The next line holds **n integer numbers**, separated by a space. The input numbers will be **distinct** (no duplicates are allowed).

The input data will always be valid and in the format described. There is no need to check it explicitly.

Output

Print at the console all **stuck numbers** {**a**, **b**, **c**, **d**} found in the input sequence in format "**a**|**b**==**c**|**d**" (without any spaces), each at a separate line. The **order** of the output lines **is not important**. Print "**No**" in case no stuck numbers exist among the input sequence of numbers.

Constraints

- The **count n** will be an integer number in the range [1...50].
- The input **numbers** will be **distinct** integers in the range [0...9999].
- Time limit: 0.5 sec. Memory limit: 16 MB.

Examples

| Input | Output |
|-------------------|--------------------------|
| 5 2 51 1 75 25 | 2 51==25 1 25 1==2 51 |
| | |

| Input | Output |
|---------------------------|---|
| 7 2 22 23 32 322 222 5 | 2 322=23 22 23 22=2 322 32 22=322 2 32 22=322 22 322 2=32 22 322 2=32 22 |





















