https://codeforces.com/group/MWSDmqGsZm/contest/219432/problem/B

B. Even Numbers

Given a number N. Print all **even** numbers between **1** and N inclusive in separate lines.

Input

Only one line containing a number N $(1 \leq N \leq 10^3)$.

Output

Print the answer according to the required above. If there are no **even** numbers print **-1**.

Examples

input

```
10
```

output

```
2
4
6
8
10
```

input

```
5
```

output

```
2
4
```

https://codeforces.com/group/MWSDmqGsZm/contest/219432/problem/C

C. Even, Odd, Positive and Negative

Given N numbers. **Count** how many of these values are **even, odd, positive** and **negative**.

Input

First line contains one number N $(1 \leq N \leq 10^3)$ number of values.

Second line contains N numbers $(-10^5 \leq X_i \leq 10^5)$.

Output

Print four lines with the following format:

First Line: "Even: X", where X is the number of **even** numbers in the given input.

Second Line: "Odd: X", where X is the number of **odd** numbers in the given input.

Third Line: "Positive: X", where X is the number of **positive** numbers in the given input.

Fourth Line: "Negative: X", where X is the number of **negative** numbers in the given input.

Example

input

```
5
-5 0 -3 -4 12
```

output

```
Even: 3
Odd: 2
Positive: 1
Negative: 3
```

Note

First Example :

Even Numbers are : **0, -4 , 12**

Odd Numbers are : **-5 , -3**

Positive Numbers are : **12**

Negative Numbers are : **-5 , -3 , -4**

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D. Fixed Password(EOF)

Given multiple lines each line contains a number X which is a password. Print "**Wrong**" if the password is **incorrect** otherwise, print "**Correct**" and **terminate** the program.

Note: The "**Correct**" password is the number **1999**.

Input

The input contains several passwords.

Each line contains a number X $(10^3 \leq X \leq 10^4 - 1)$.

Output

Print "**Wrong**" if the password is typed **wrong** otherwise, print "**Correct**" if the password is typed **correctly**.

Example

input

```
2200
1020
1999
1000
9999
```

output

```
Wrong
Wrong
Correct
```

https://codeforces.com/group/MWSDmqGsZm/contest/219432/problem/E

E. Max

Given a number N, and N numbers, find **maximum** number in these N numbers.

Input

First line contains a number N $(1 \leq N \leq 10^3)$.

Second line contains N numbers X_i $(0 \leq X_i \leq 10^9)$.

Output

Print the **maximum** number.

Example

input

```
5
1 8 5 7 5
```

output

```
8
```

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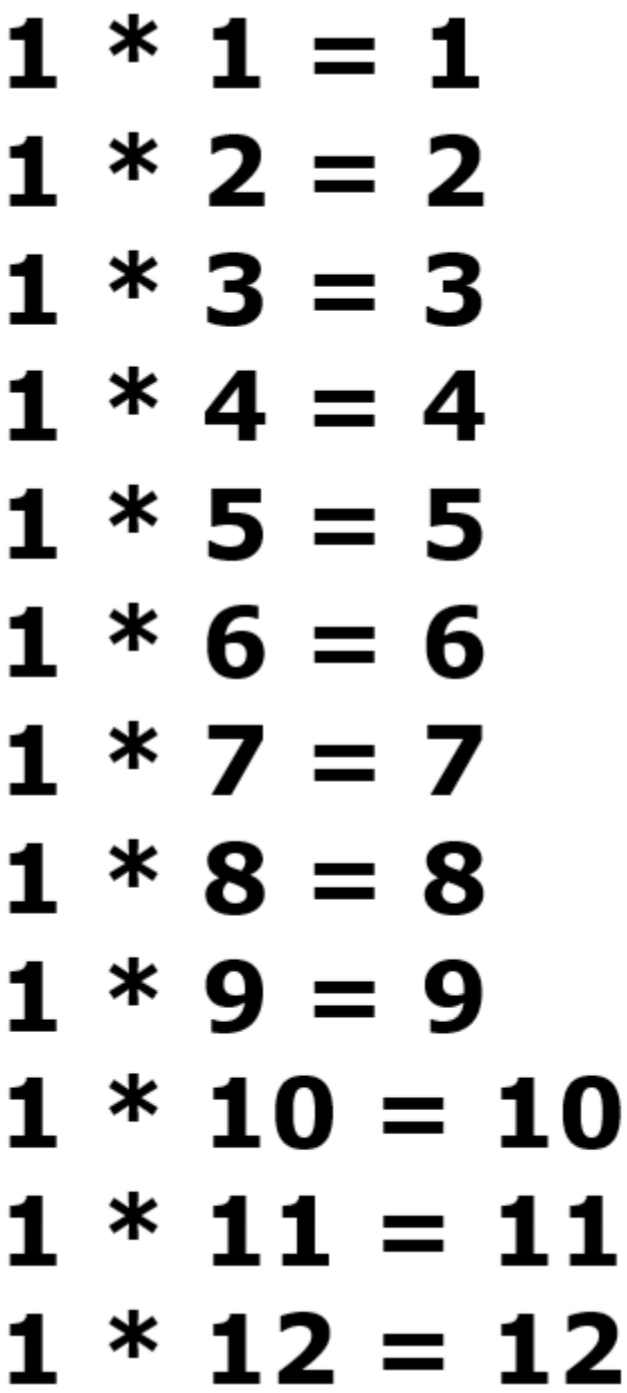
F. Multiplication table

Given a number N. Print the **maltiplication table** of the number from **1** to **12**

For example: if N = **1**



Input

Only one line containing a number N $(1 \leq N \leq 50)$.

Output

Print **12** lines according to the required above.

Examples

input

```
1
```

output

```
1 * 1 = 1
1 * 2 = 2
1 * 3 = 3
1 * 4 = 4
1 * 5 = 5
1 * 6 = 6
1 * 7 = 7
1 * 8 = 8
1 * 9 = 9
1 * 10 = 10
1 * 11 = 11
1 * 12 = 12
```

input

```
2
```

output

```
2 * 1 = 2
2 * 2 = 4
2 * 3 = 6
2 * 4 = 8
2 * 5 = 10
2 * 6 = 12
2 * 7 = 14
2 * 8 = 16
2 * 9 = 18
2 * 10 = 20
2 * 11 = 22
2 * 12 = 24
```

https://codeforces.com/group/MWSDmqGsZm/contest/219432/problem/Q

Q. Digits

Given a number N. Print the **digits of that number** from right to left separated by space.

Input

First line contains a number T $(1 \leq T \leq 10)$ number of test cases.

Next T lines will contain a number N $(0 \leq N \leq 10^9)$

Output

For each test case print a single line contains the **digits of the number** separated by space.

Example

input

```
4
121
39
123456
1200
```

output

```
1 2 1
9 3
6 5 4 3 2 1
0 0 2 1
```