## Sharmeen and One

Sharmeen is a little girl and she can write only "one!". If any one tells her to write 1 , then she write "one". If any one tells her to write 2 , she write "one one!!". If any one tells her to write 3 , she write "one one one!!!". If any one tells her to write 4 , she write "one one one one!!!!". So, The basic idea is, if someone tell her to write $n$, she will write "one" $n$ times maintaining a space between any two consecutive "one" and then write n "!" marks.

Writing the same thing several time is boring, so she hired you to write a program for her which will do the same thing.

## Input

First line will contain number of test cases $\mathrm{t}(1<=\mathrm{t}<=50$ )
In each test case you will given an integer n ( $1<=\mathrm{n}<=50000$ ).

## Output

For each test case print the expected output in one line.

## Example

## Input:

2
1
2

## Output:

one!
one one!!

