

# Print ♥

Dian is a good programmer recently fall in love (♥). Now she can not think anything without love (♥). She writes love on her computer and mobile where she can. She writes love using only '\*' and '.' character. She wants to write N length love (♥). If she writes a N length Love there will be  $9 \times N$  characters of a line and total lines is  $(8-2) \times N + 2$ .

Her written 1 length love is

```

* *
.. . .
* * * *
. . . .
* * * *
. . . .
* * * *
. . . .
* * * *
. . . .
* * * *
. . . .
* * * *
. . . .
* * * *
. . . .
* * * *
. . . .

```

here every line length is 9 And there have 8 lines

2 length loves is

```

**      **
.... ..
** ** ** **
.. .. .. ..
** ** ** **
.. .. .. ..
**      **
.....
**      **
.....
**      **
.....
**      **
.....
**      **
.....
**      **
.....
**      **
.....
**      **
.....
**      **
.....
**      **
.....
**      **
.....
**      **
.....
**      **
.....
**      **
.....
**      **
.....
**      **
.....
**      **
.....
**      **
.....
**      **
.....
**      **
.....

```

Here every line length is 18 and \* are double than 1 length love. But the first line and last line print only once time. So total line is 14.

## Input:

Input start with an integer number  $T (\leq 1000)$ , which is number of test cases. Each test case contain a integer  $N (1 \leq N \leq 30)$ .

## Output:

For each case, Print "Case #X:" where X is case number and next line print the love of N length.

There will be a blank line between two cases. See the sample input output for more clarification.





Contest arranged by [!\[\]\(1d3a1175dd4902218e694b9c098adb83\_img.jpg\) \(Programming Problem in Bengali\)](#)