## Just draw a square

Your task is to draw a square of size $\mathrm{n}^{*} \mathrm{n}$ but you have to distinguish the inner area from the circumference ,
The circumference should be drawn using the character '\#'
The inner area should be drawn using the character ' $=$ '
here is the first few squares :

## size 1 :

\#
size 2 :
\#\#
\#\#

## Input

The first line contains one integer $T$ the number of test cases ( $T<50$ ), then $T$ lines follows, each with integer $n$ the size of the required square ( $\mathrm{n}<50$ )

## Output

for each test case draw the required square , please separate every case by an empty line .

## Example

Input:
2
3
4
Output:
\#\#\#
\#=\#
\#\#\#
\#\#\#\#
\#==\#
\#==\#
\#\#\#\#

