Problems

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B. Prairie dogs III

Time Limit: 1.0 Seconds Memory Limit: 65536K

The lovely prairie dogs come to our sight again! The black-tailed prairie dog is a large, burrowing, ground squirrel belonging to a group of four other prairie dog species found only in North America. The black-tailed prairie dog is the most abundant and widely distributed prairie dog.

We suppose the prairie dogs are perfect architects, and they build their house in the farmland. One day, the black-tailed prairie dogs assemble at the farmland to play a funny game. The prairie dogs stand in a line with the length of 3 order. Each time the middle third of the line of prairie dogs are disappeared. They repeat until none of the prairie dogs next to each other.

For example, if the order is 3, the initial number of prairie dogs(stands by the mark '@') is $27(3^3 = 27)$:

The middle third of prairie dogs are disappeared(replace '@' with space):

0000000000 000000000

and disappear the middle third of each piece of the line:

000 000 000 000

and again:

00 00 00 00

The process stops because none of the remaining prairie dogs next to each other. Only the final result should be displayed.

Input

Each line of input will be a single number between 0 and 10, inclusive, indicating the order. The input stops when EOF(end of file) is reached.

Output

You must output of final result of the line of prairie dogs, followed by a newline. There is no whitespace before or after your output.

Sample Input

0

1

Sample Output

@ @ @

 Problem Setter: chhot@TJURocket

Source: TJU Programming Contest 2007 Preliminary

Problem ID in problemset: 2805

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