#### Problem A. A with As

We love the alphabet A so much that in this problem, you have to print out a large A using A-s.

More specifically, you are given an odd positive integer n=2k+1, which will be the number of lines you should print. Each line should contain exactly 2n-1 characters.

- For the first line, you should print n-1 dots '.', one 'A', and n-1 dots '.'.
- For the *i*-th line  $(2 \le i \le k)$ , you should print n-i dots '.', one 'A', 2i-3 dots '.', and one 'A' again, and then n-i dots '.'.
- For the k + 1-th line, you should print k dots '.', n 'A's, and then k dots '.'.
- For the j-th line  $(k+2 \le j \le n)$ , you should print n-j dots '.', one 'A', 2j-3 dots '.', and one 'A' again, and then n-j dots '.'.

Given n, write a program that prints a large "A" like the description above.

### Input

Your input consists of an arbitrary number of records, but no more than 10. Each input record is a line that contains only an *odd* integer n ( $3 \le n \le 81$ ). The end of input is indicated by a line containing only the value -1.

### **Output**

For each input record, print n lines that contains a large A with 'A's.

## **Example**

Standard input	Standard output
3	A
7	.AAA.
-1	AA
	A
	A.A
	AA
	AAAAAA
	AA
	.AA.
	AA

# **Time Limit**

1 second.