A

BCD

EFGAB

CDEFGAB

CDEFG

ABC

D

E

FGA

BCDEF

GABCDEF

GABCD

EFG

A

# Problem 3 – Programmer DNA

Your task is to make a program that can **print simple DNA chains of various lengths**. Simple DNA chains consist of **sequence of diamond blocks containing only letters from A to G** (see the example on the right).

Letters are chained alphabetically: A is followed by B, then C, D, E, F, G, then again A and so on. Each DNA block is with size 7.

### Input

The input data should be read from the console.

* On the first line an integer number **N** specifying the **length** of the DNA chain will be given.
* On the second line the **starting letter** of the chain will be given (capital letter from **A** to **G**).

The input data will always be valid and in the format described. There is no need to check it explicitly.

### Output

The output should be printed on the console. Following the examples below print exactly **N** lines of the programmer's DNA. Use only capital letters from **A** to **G** and “**.**” for the empty space.

### Constraints

* **N** will always be a positive number between **7** and **999** inclusive.
* Allowed working time for your program: 0.1 seconds.
* Allowed memory: 16 MB.

### Examples

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Input** | **Output** |  | **Input** | **Output** |
| 7  B | ...B...  ..CDE..  .FGABC.  DEFGABC  .DEFGA.  ..BCD..  ...E... | 10  F | ...F...  ..GAB..  .CDEFG.  ABCDEFG  .ABCDE.  ..FGA..  ...B...  ...C...  ..DEF..  .GABCD. |