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## DNA

P67329\_en

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Write a backtracking program that prints all the combinations of length  $n$  that can be made with the letters 'A', 'C', 'G', 'T' for a given  $n$ .

### Input

The input consists of a natural number  $n > 0$ .

### Output

Print all the combinations of  $n$  letters 'A', 'C', 'G', 'T' in lexicographical order.

### Sample input

2

### Sample output

AA  
AC  
AG  
AT  
CA  
CC  
CG  
CT  
GA  
GC  
GG  
GT  
TA  
TC  
TG  
TT

### Problem information

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