
DNA

P67329_en

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 1

2

Sample output 1

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

Problem information

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