

简况

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AC 7题 , Rank 9th

总结与反思

cmx

lpy

xsy

题解

A. Is Your System Safe?

B. Tiling Dominoes

C. Skating on Weiming Lake

D. Travel to Qomolangma

E. Walking Around the Country

F. A Simple Math Problem

题意:

求解 $(7+4\sqrt{3})^n$ 的整数部分

题解:

$(7+4\sqrt{3})^n = x+y\sqrt{3}, (7-4\sqrt{3})^n = x-y\sqrt{3}$

$0 < (7 - 4\sqrt{3}) < 1, 0 < (7 - 4\sqrt{3})^n < 1 \rightarrow x, y \sqrt{3}$ 整数部分相差不超过1
又 $x \in \mathbb{N}^+, [y\sqrt{3}] = x - 1, [(7 + 4\sqrt{3})^n] = 2x - 1$

\$在 $Z(\sqrt{3})$ 空间上快速幂即可\$

G. Go! Go! Go!

H. Reverse K-th Problem

I. Stairs of Tetris

J. Pairs

K. Lying Island

补题

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