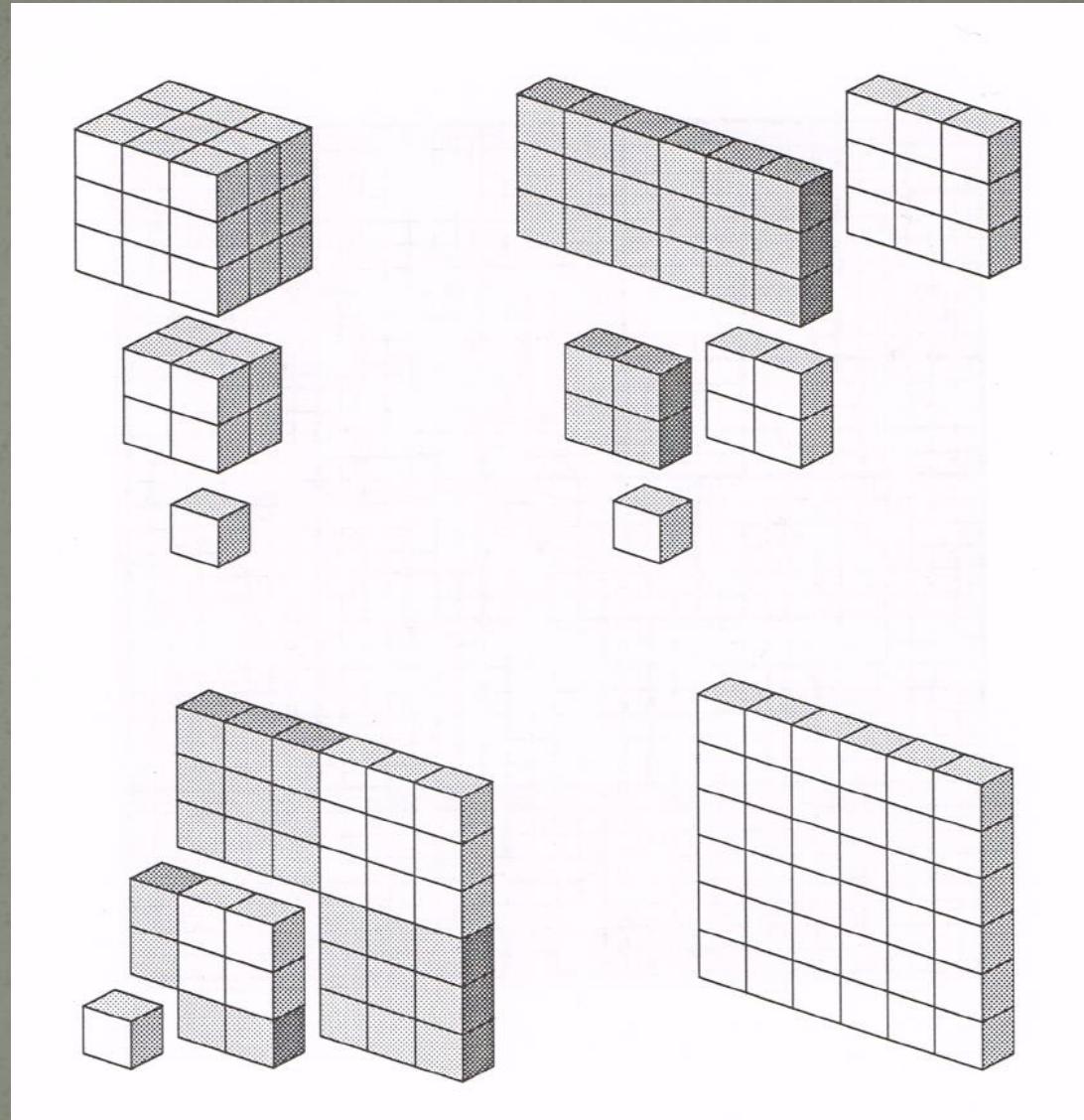


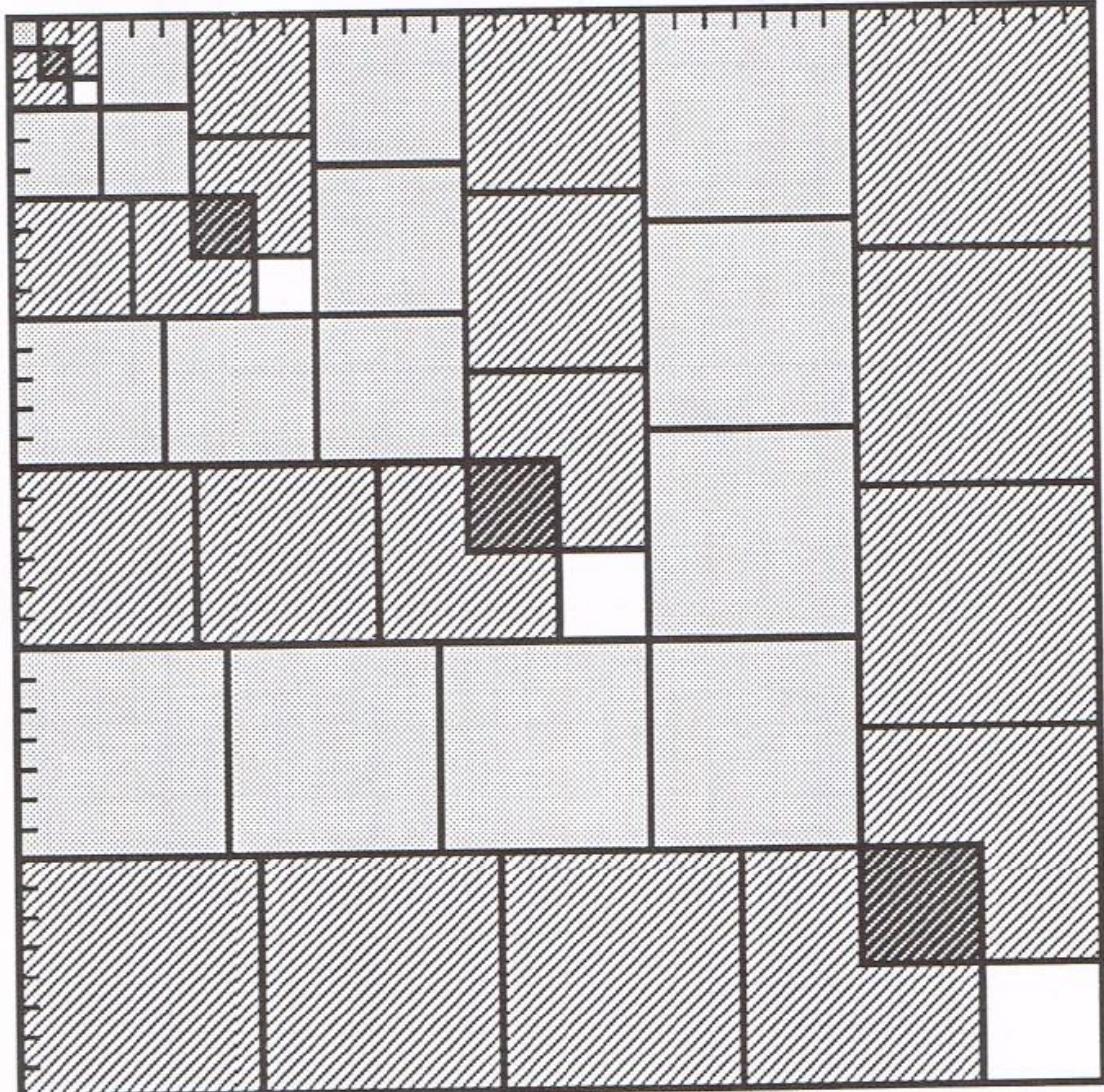
# POTD... !

*What  
do you  
make of  
this?!*



POTD... !

*How  
about  
this?!*



# *The Honeycomb Puzzle!*

*How many ways can you get from here to there?*

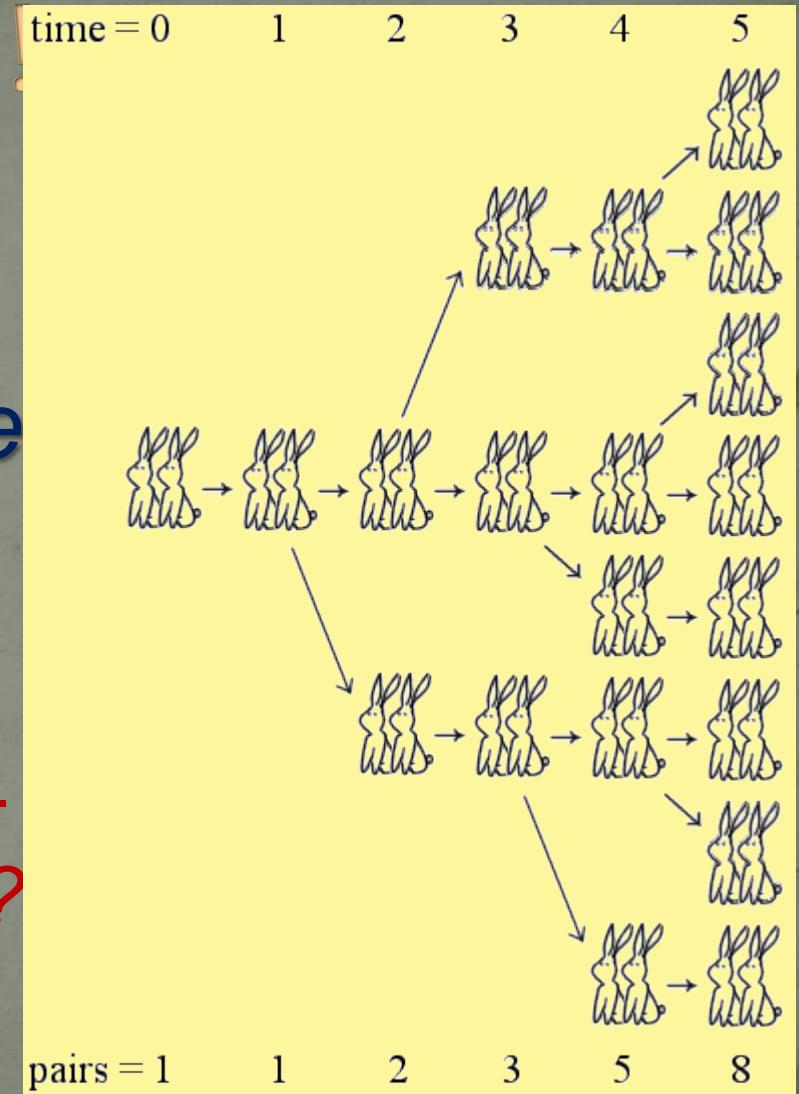


an old favorite!

You probably all  
(and love)

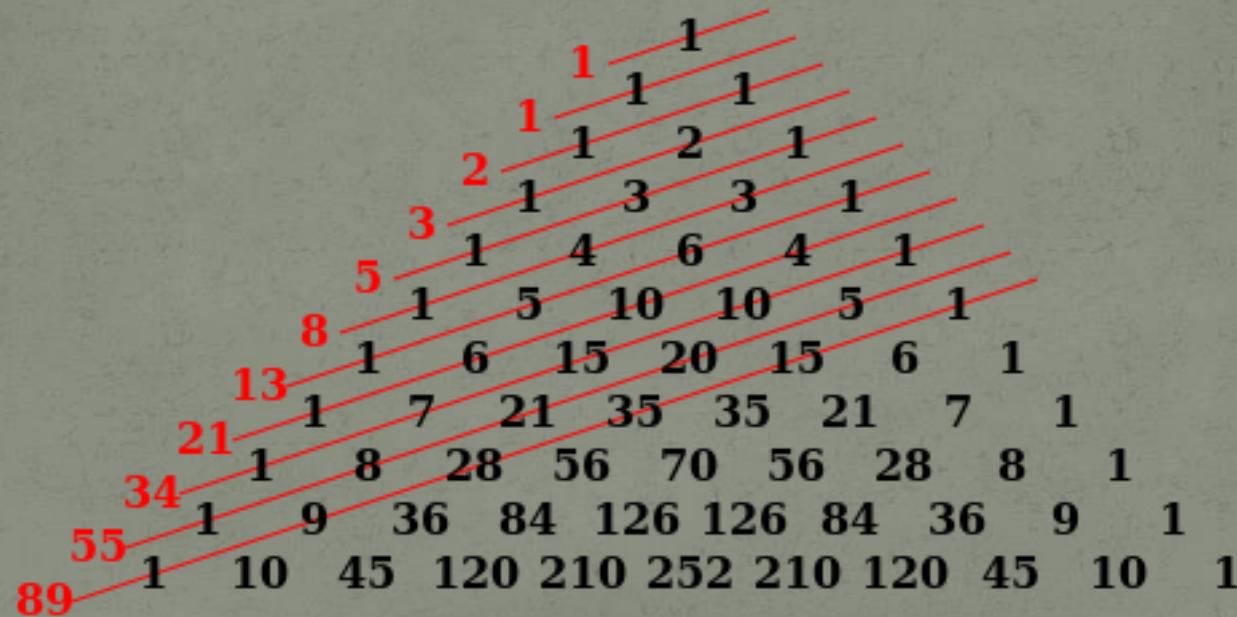
1      1      2      3

*(quick history question –  
where did it come from?  
what context?)*



# Fibonacci Sequence

Here's an "obvious" connection, right?



# *The infamous Fibonacci-Pascal connection!*

10/89... !

*if you calculate it out...*

0.112359550561798...

# Sequences – what's next?!

Here's a simple one...

1      2      4      8      16...

*What's next?*

Answer = that's a pretty **stupid** silly question!

*It could be anything you'd like!*  
*...Moser's Circle Problem!*

[Online Encyclopedia of Sequences](#)

# *Multidimensional Fence Building!*

*Consider a fence in  
two dimensional space...*

*it's just a straight line*

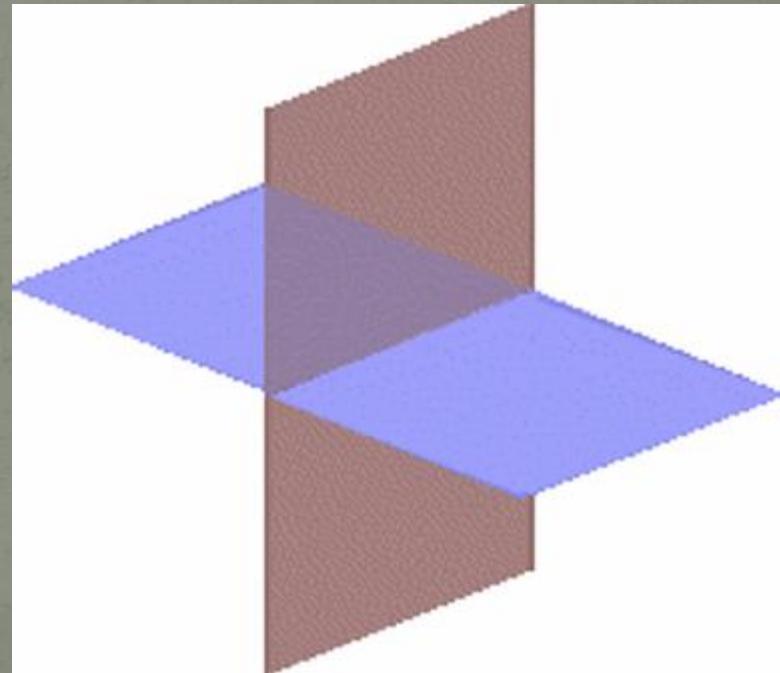
*So now what would a fence look  
like in one dimensional space?*

*it's just a... ?*

*Now consider the fence problem in  
three dimensional space...*

*the fences are planes...*

*One plane splits  
space into two  
zones and two  
fences (planes)  
split space into...*



*What about three fences (three planes)?*

*How many possible arrangements  
are there?...*

