

# If all math was computable...

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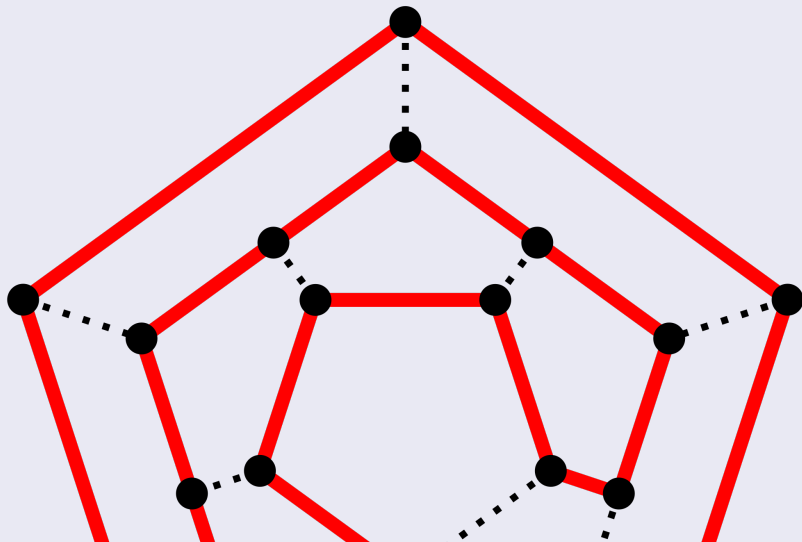
# You wake up

# Programming class

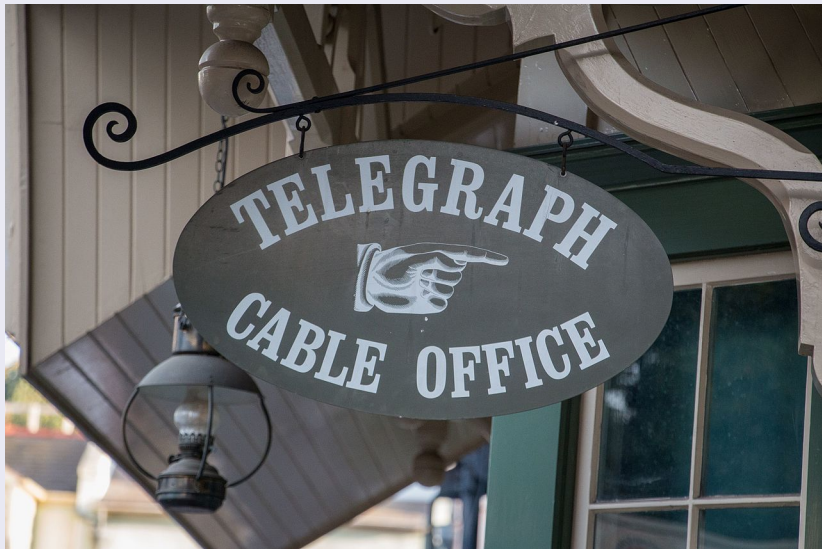
A virus is a self-replicating program

# The new Hello World

## Travelling Salesman



## Dedicated lines



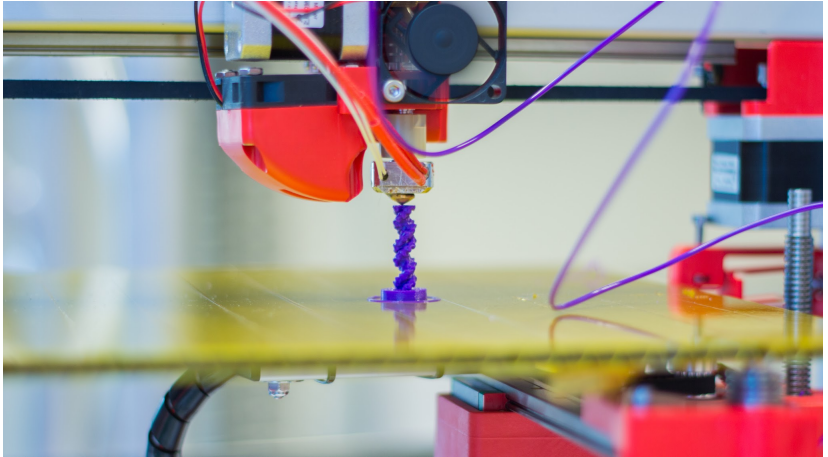
# Who uses passwords?

# Choice



# Reverse engineering

# Intellectual property



...wait?

Something occurs to you

# Finite programs

Finite keyboards + finite length = countable number of programs

# Reals and Integers

All the real numbers between 0 and 1

$a_1$	$a_2$	$a_3$	$a_4$	$\dots$
$b_1$	$b_2$	$b_3$	$b_4$	$\dots$
$c_1$	$c_2$	$c_3$	$c_4$	$\dots$
$d_1$	$d_2$	$d_3$	$d_4$	$\dots$
$\dots$	$\dots$	$\dots$	$\dots$	$\dots$

# A table of programs

# If we fuss with the diagonal

# A program that can't exist



# You wake up

# The Real World: Programming is **hard**

# The Real World: Programming is **finite**

The finite nature of

Thank you

Thank you for coming out!