

A MATH CIRCLE IN AN ELEVATOR

Ed Keppelmann

University of Nevada Reno

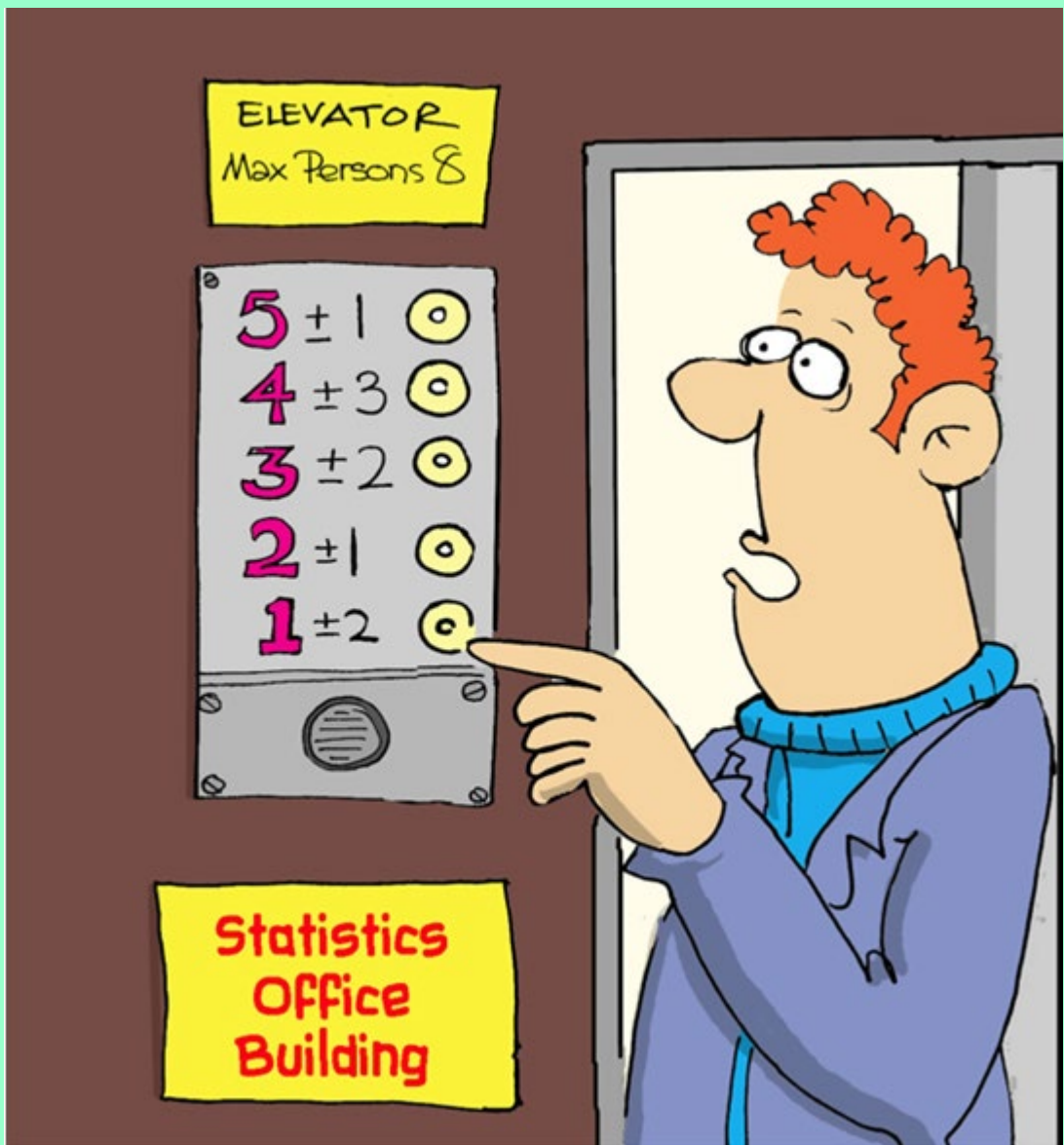
Send A 6 digit# to keppelma@unr.edu

Like 016915 OR 124589



Imagine an Elevator in a busy Building.


- People come and go constantly
- You have at most 30 seconds!
- We must recruit them to think!
- Think about something fun!
- Get in touch thinking or not!
- So let's play dodgeball!



A virtual competition where you provide a digital strategy
IN JUST 6 DIGITS!!!



So
Come
On
Board!

A close-up photograph of a person's hand, wearing a light blue dress shirt, reaching out to press the number 5 button on an elevator control panel. The panel is metallic and features a grid of circular buttons numbered 1 through 12, with a green button for '0' at the bottom. The background is a blurred view of the elevator shaft. The text 'CHOOSE YOUR FLOOR!' is overlaid in the bottom right corner in a white, bold, sans-serif font with a blue outline.

**CHOOSE
YOUR
FLOOR!**



IN THE FOLLOWING GAME

Players get energy by eating grass

Energy allow you to move

When objects collide
the more energetic one wins

But you the player are special!!

Can your dodging/playing strategy keep
You above the chaos like a powerful ninja!?

Send A 6 digit# to
keppelma@unr.edu

Like 016915 OR 124589



They will see the
game play randomly while
on the elevator! Each players
Performance and their overall
standing can be recorded in a
Short video that will be sent to them.

The platform is NetLogo.

NetLogo is an open source platform
for agent based modeling

Agent based modeling is a form of
programming where you specify
rules of behavior for individual agents
in some large environment.

At each tick of the master clock the
agents carry out a behavior
in some random order and the
system keeps track of changes
and any statistics you like.

Simulations with NET LOGO:

A murmuration of starlings Fireworks Kaleidoscope

A school of fish

It's a small world after all

Ant colonies

Chemical reactions

Bee colonies

Pachinko Machine

Voting

Wolves & Sheep

Spread of Rumors

Spread of a virus

Traffic Jams and Rush hour

Crowd control

Evolution

Behavior of a Forest Fire