

WHO FRAMED HERBIE RAINED?

In a shocking turn of events, renowned inventor Herbie Rained, widely admired for his groundbreaking innovations, was taken into custody yesterday on suspicion of corporate espionage.

Rained, a top contender in this year's prestigious Winnovate competition, faces allegations of possessing stolen blueprints belonging to Rook's Automotive, a major player in the automotive industry.

Police reportedly uncovered confidential documents in his lab, suggesting a link between his latest invention, the highly anticipated MagnoRail, and proprietary designs owned by Rook's Automotive. Authorities believe these blueprints could be pivotal to advancing MagnoRail's technology, raising questions about whether Rained resorted to theft to gain an edge over his competitors.

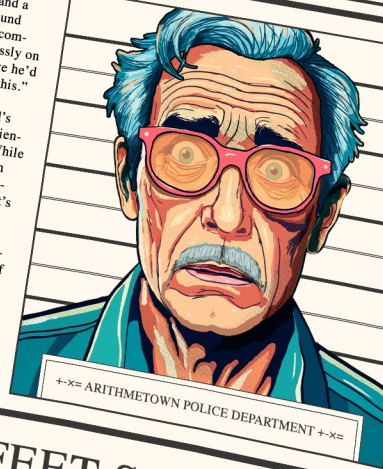
Friends and colleagues, however, paint a

very different picture of Rained, describing him as a passionate inventor and a man of integrity. "This doesn't sound like Herbie at all," one colleague commented. "He's been working tirelessly on MagnoRail for years. I can't believe he'd risk everything for something like this."

As the investigation unfolds, Rained's arrest has sent ripples through the scientific and engineering communities. While Rook's Automotive has refrained from commenting on the case, they have expressed confidence in law enforcement's handling of the situation.

For now, Rained remains in custody, awaiting further investigation. The Winnovate competition continues, but one of its brightest contenders faces a fight to clear his name.

Story continues on Page 5.



SNEAKY FEET STEPS UP!

In a huge win for innovative retail, Sneaky Feet—the sneaker shop that feels like stepping inside a giant shoe—has been named Retail Store of the Year. Known for its immersive design, where walls mimic the inner workings of a sneaker, Sneaky Feet has redefined the shopping experience. The store's unique setup

and exclusive sneaker selection have quickly made it a must-visit destination for sneaker enthusiasts and casual shoppers alike.

Founder Jordan Lace shared excitement over the award, noting that Sneaky Feet aimed to be more than just a store. "We wanted an experi-

ence that brings sneaker culture to not only won over customers but also claimed one of retail's top honors.

Story continues on Page 22.



I don't have much time, so I'll make this quick.

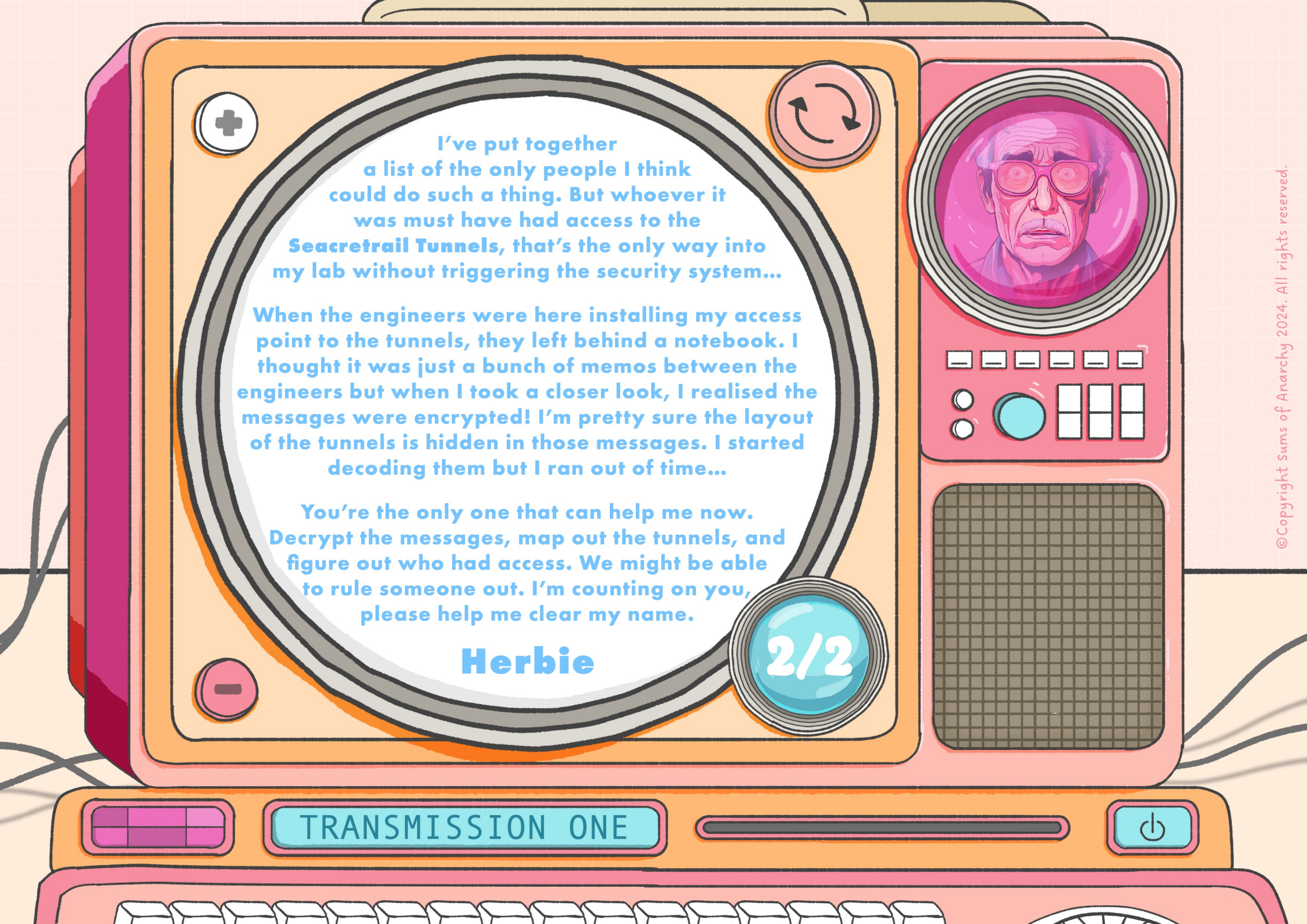
It's me, Herbie. Something terrible has happened - the police showed up yesterday... reason to believe I had some blueprints belonging to Rook's Automotive in my possession... can you believe it? **ME** - stealing **THEIR** blueprints?? But **BAM!** There they were, right in my drawer.

You know me, I've built my career as an inventor. Why would I throw it all away, risk my **ENTIRE REPUTATION**, to copy one of their abhorrent designs?? And not to mention the Winnovate competition. To think that I would jeopardise years of work on my entry... no, no, this is sabotage. I've been framed, no doubt about it, but the question is:

who did this?

1/2

TRANSMISSION ONE



I've put together
a list of the only people I think
could do such a thing. But whoever it
was must have had access to the
Seacretrail Tunnels, that's the only way into
my lab without triggering the security system...

When the engineers were here installing my access
point to the tunnels, they left behind a notebook. I
thought it was just a bunch of memos between the
engineers but when I took a closer look, I realised the
messages were encrypted! I'm pretty sure the layout
of the tunnels is hidden in those messages. I started
decoding them but I ran out of time...

You're the only one that can help me now.
Decrypt the messages, map out the tunnels, and
figure out who had access. We might be able
to rule someone out. I'm counting on you,
please help me clear my name.

Herbie

2/2

TRANSMISSION ONE

● PUZZLE ONE ●

THINGS YOU'LL NEED

HERBIE'S
SUSPECT LIST

ARITHMETOWN
MAP

ENGINEER'S
NOTEBOOK

THE MISSION

The Engineer's Notebook contains 8 encrypted memos, each concealing a number and a direction. These clues will guide you across the Arithmetown map, in order, showing how many squares to move and in which direction. Use this information to chart the layout of the hidden Seacretail tunnels.

Once you've mapped the tunnels, plot the addresses of Herbie's suspects. Pay close attention - some of them won't have access to the tunnels. Use this crucial intel to eliminate a suspect and narrow down your investigation!

SUSPECTS



Rubra King

Rubra is a fantastic inventor but she's always seen me as a rival. With Winnovate approaching, could she pull a stunt like this to get me out of the way?

LOCATION: W10
DOB: 30/03/86



Isaac Rook

Rook's Automotive dominates the transport market and my invention for the Winnovate competition threatens them. Would CEO, Isaac, stoop to sabotage to protect his empire?

LOCATION: J5
DOB: 12/08/73



Shay D. Pearson

Shay was my former lead engineer, a sharp mind, no doubt about it, but he started taking unnecessary risks, running reckless experiments. I had no choice but to let him go. He didn't take it well. Perhaps he's seeking revenge...

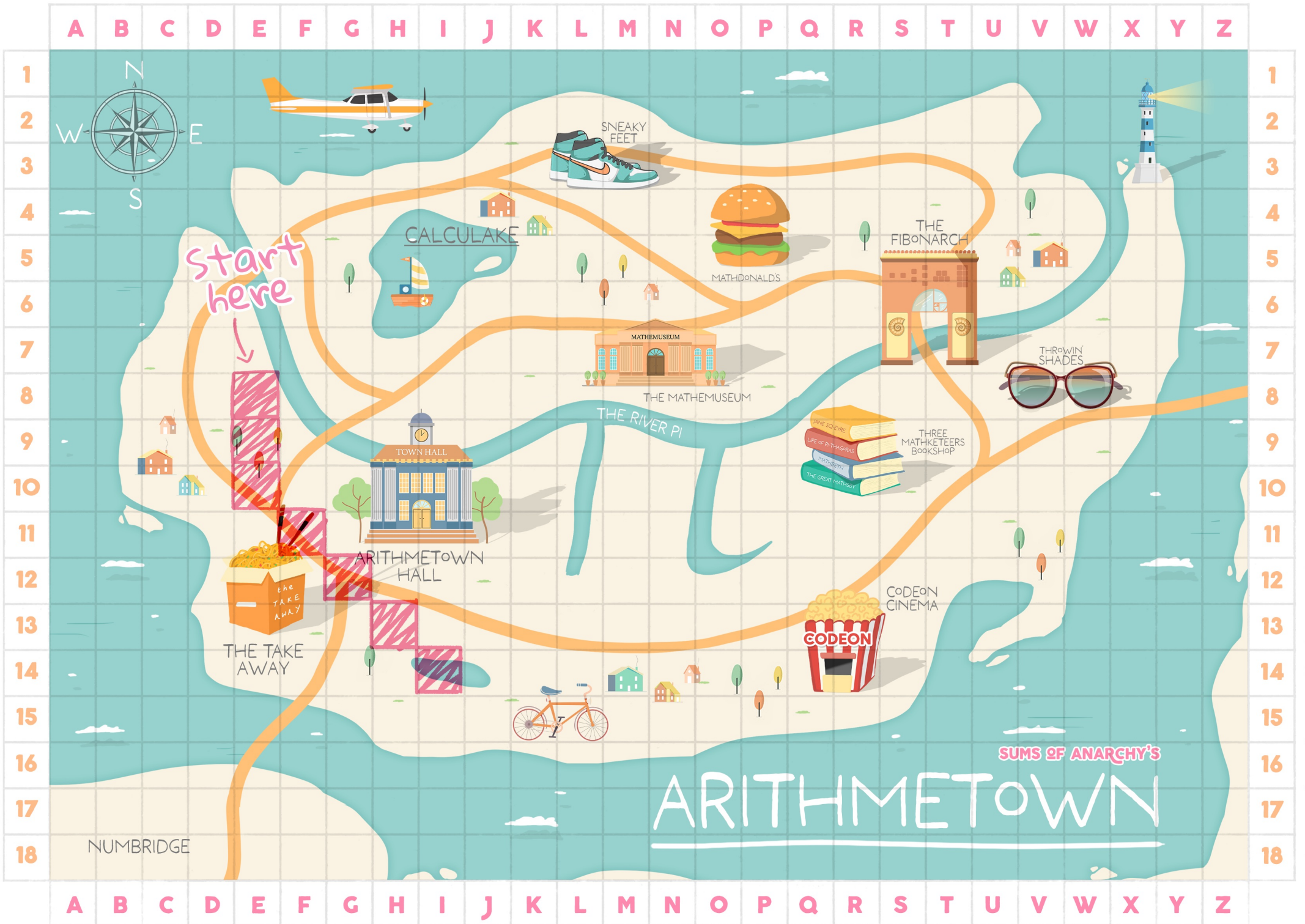
LOCATION: N15
DOB: 06/09/99



Birdie Rained

My sister - brilliant, but with a history of, let's say, 'questionable tactics'. We fell out when I told her that she had to come clean about how she secured that grant. Would she go as far as discrediting me to keep her secret safe?

LOCATION: U6
DOB: 04/12/59



A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

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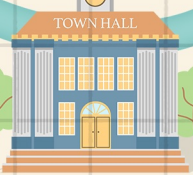
CALCULAKE



Start here



THE RIVER PI



ARITHMETOWN HALL



SUMS OF ANARCHY'S

ARITHMETOWN

NUMBRIDGE

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

HEY IT'S SALLY, I ACCIDENTALLY BOUGHT 9 HAMMERS WHEN I ONLY WANTED 7. CAN SOMEONE GO DOWN 2 THE STORE AND RETURN THE EXTRA?



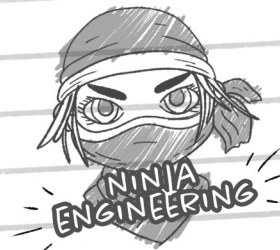
I think this means '2 south'

THE CASHIER AT SKIP EQUIPS WAS DOWNRIGHT RUDE. I WAS SUPPOSED TO GET £16 BACK BUT I ONLY GOT A QUARTER OF IT.

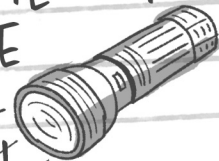


pretty sure this is 'south east 4'

WE SHOULD START SHOPPING AT NINJA ENGINEERING. LAST WEEK THEY WERE SELLING TWIN SLOT UPRIGHTS FOR £2. I BOUGHT 5.



STU ESTAHO HERE. WE'VE ONLY GOT 2 FLASHLIGHTS, WE NEED DOUBLE THAT! GET THE BULBS THAT CAN BE TURNED RIGHT DOWN.

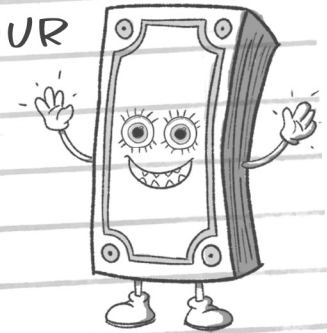


SALLY ALREADY BOUGHT A
PACK OF 8. SHE SAID SHE'S
DOWN FOR SHARING THAT
BETWEEN THE FOUR OF US.

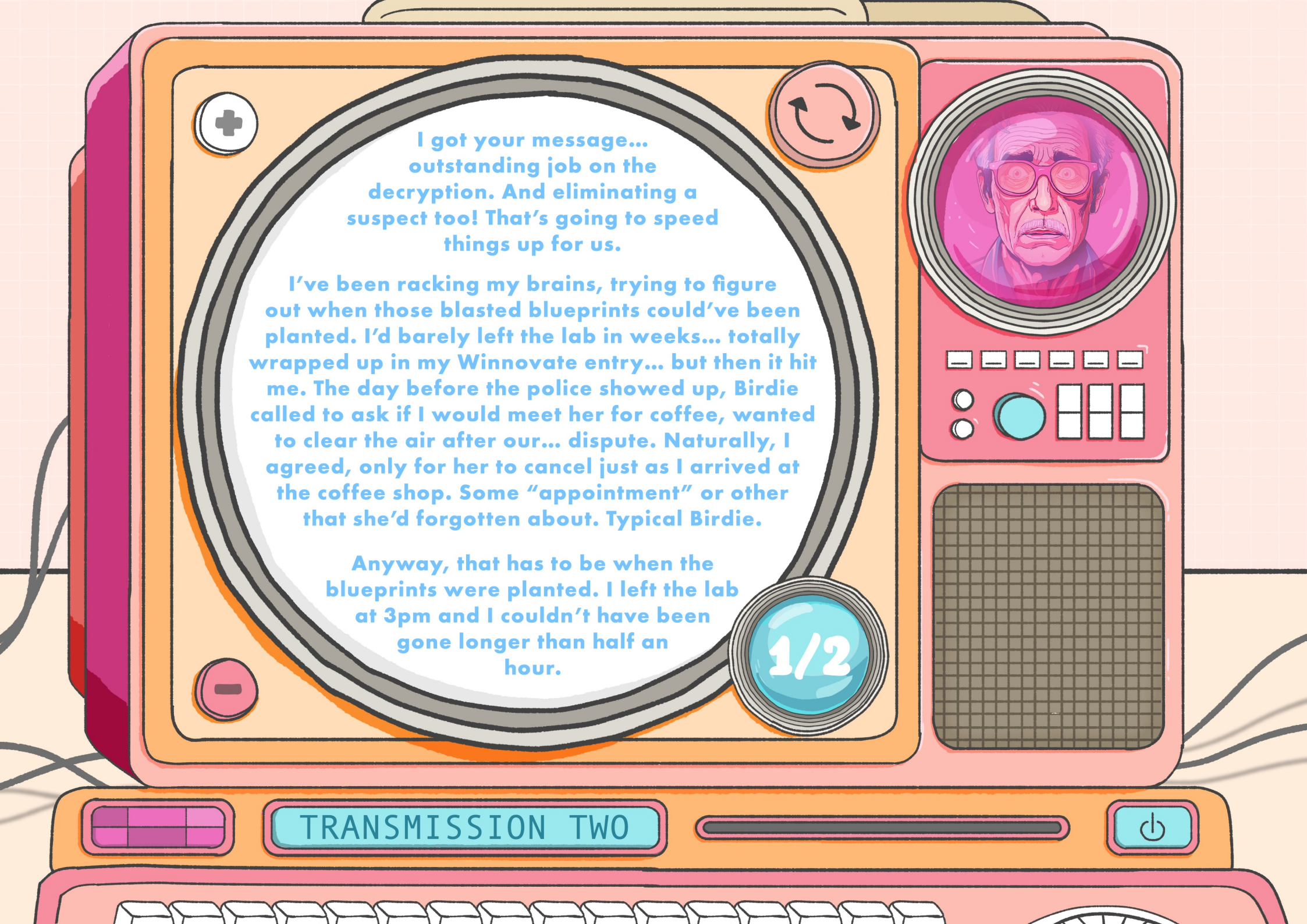
DID ANYONE READ THE
LAST EDITION OF SCIENCE
WEEKLY? THEY THOUGHT
THEY'D DISCOVERED 7
SPECIES OF DIAGONAL
STRIPED WASPS AND THEN
THEY FOUND ANOTHER 5 BUT
8 OF THEM TURNED
OUT TO BE HOVERFLIES.



I BET THAT STUNG! BY THE
WAY, WE WON £40 ON THE
NATIONAL WINNERS
SYNDICATE. IT'S NOT MUCH
BETWEEN THE FOUR
OF US BUT IT'S
BETTER THAN
NO WIN AT ALL.



I KNEW A GUY WHO WON THE
JACKPOT, SIMON WINTERS.
I LENT HIM £16 BACK IN
COLLEGE AND HE ONLY PAID
ME BACK £12. MAYBE HE'LL
FINALLY PAY DOWN WHAT'S
LEFT.



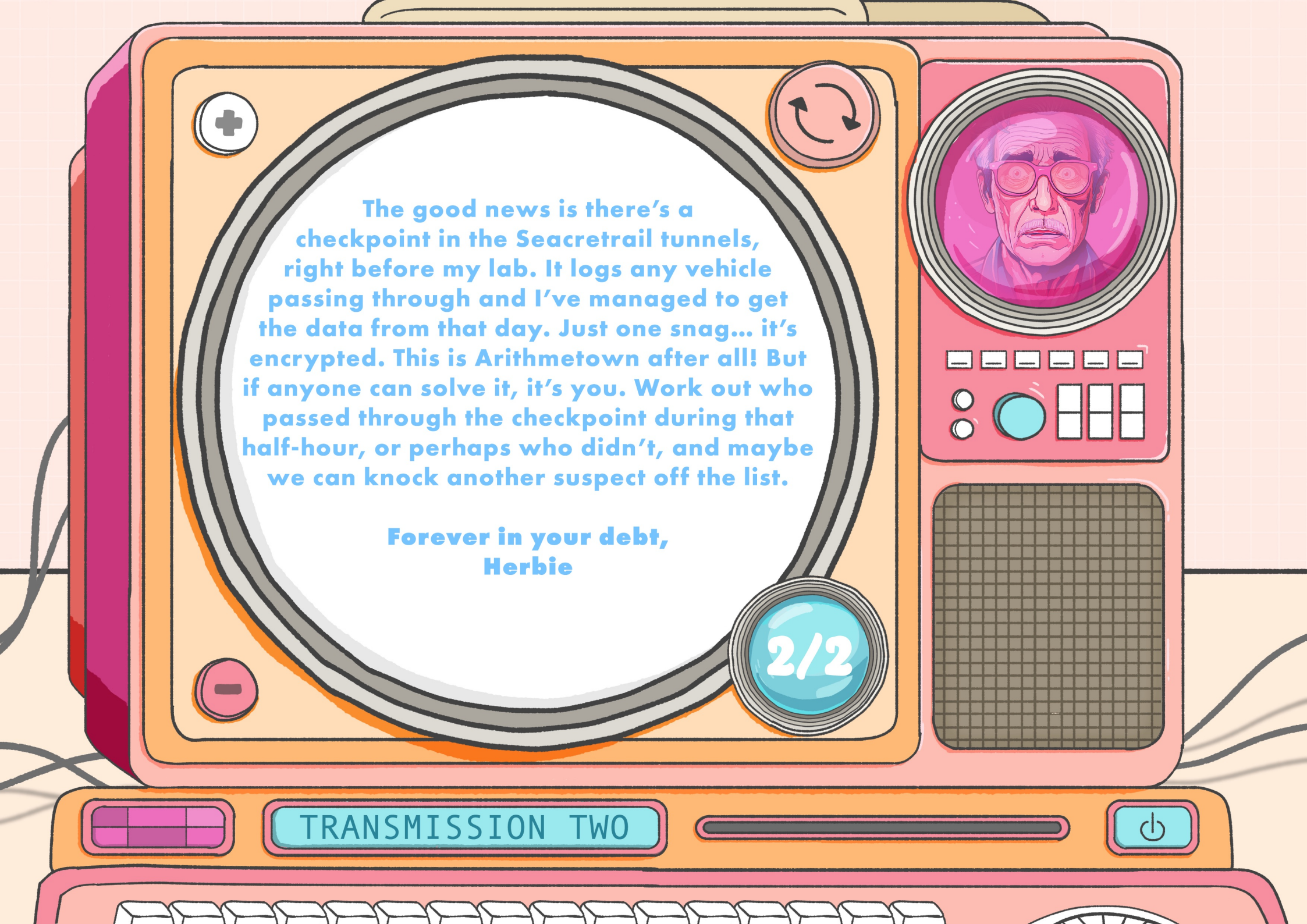
I got your message...
outstanding job on the
decryption. And eliminating a
suspect too! That's going to speed
things up for us.

I've been racking my brains, trying to figure
out when those blasted blueprints could've been
planted. I'd barely left the lab in weeks... totally
wrapped up in my Winnovate entry... but then it hit
me. The day before the police showed up, Birdie
called to ask if I would meet her for coffee, wanted
to clear the air after our... dispute. Naturally, I
agreed, only for her to cancel just as I arrived at
the coffee shop. Some "appointment" or other
that she'd forgotten about. Typical Birdie.

Anyway, that has to be when the
blueprints were planted. I left the lab
at 3pm and I couldn't have been
gone longer than half an
hour.

1/2

TRANSMISSION TWO



The good news is there's a checkpoint in the Seacretail tunnels, right before my lab. It logs any vehicle passing through and I've managed to get the data from that day. Just one snag... it's encrypted. This is Arithmetown after all! But if anyone can solve it, it's you. Work out who passed through the checkpoint during that half-hour, or perhaps who didn't, and maybe we can knock another suspect off the list.

**Forever in your debt,
Herbie**

2/2

TRANSMISSION TWO

● PUZZLE TWO ●

THINGS YOU'LL NEED

HERBIE'S
SUSPECT LIST

TRONTOLL
LOG

THE MISSION

The **TRONTOLL** Log tracks each vehicle passing through the checkpoint before Herbie's Lab, using a unique identification number generated from the driver's initials and date of birth as follows:

- FIRST NAME INITIAL
- SUM OF ALL DATE OF BIRTH DIGITS, MULTIPLIED BY 5.
- SURNAME INITIAL
- PRODUCT OF DIGITS IN YEAR OF BIRTH

E.G. POLLY GONN, BORN ON 15/04/63

- FIRST NAME INITIAL: P
- Sum of D.O.B. digits: $1+5+0+4+6+3 = 19$; multiplied by 5 = 95
- SURNAME INITIAL: G
- Product of year of birth digits: $6 \times 3 = 18$

TRONTOLL ID: P95G18

Use this formula to calculate the **TRONTOLL** ID numbers for the remaining suspects and identify them in the log.

Next, use the 'Time In' and 'Duration' columns to work out the time each vehicle exited the next checkpoint. Who came and went at the right (or wrong) times? With any luck, you'll uncover someone who didn't have access to Herbie's lab when the blueprints were planted.

Every suspect eliminated brings you closer to the truth!

TRONTOLL



THE BEST ROUTES ARE THE
ONES YOU DON'T SEE

CHECKPOINT DATA: 6
COLLECTION DATE: 12/09/2024

DRIVER NAME	VISITOR ID	TIME IN	DURATION	TIME OUT
	C145K72	14:34	22M	
	B105R45	14:55	30M	
	A125A48	14:57	20M	
	R130K45	15:05	90M	
	B110R16	15:08	12M	
	I105R21	15:12	14M	
	B135K36	15:29	10M	
	R100K48	15:40	15M	



**We're right on the
brink - I can feel it!**

Before the police carted me off, I managed to do a quick DNA swab of my desk. Running a full analysis would've been way too time-consuming, but now that you've narrowed it down to just two suspects, the process should be much quicker.

Run the DNA profiles of the final two suspects through the Genometry analyser. If you get a match, we've got our culprit.

**I'm counting on you.
Herbie**

1/1

TRANSMISSION THREE

● PUZZLE THREE ●

THINGS YOU'LL NEED

DNA
PROFILES

GENOMETRY
ANALYSERS

THE MISSION

Answer the questions to decrypt the DNA profiles of your remaining two suspects. Plot each set of points in order on the Genometry Analyser, connecting the dots - use one grid for each profile.

The shape that appears will reveal which suspect matches the DNA profile found in the lab. With this final piece, you'll clear Herbie's name and unmask the one who framed him!

DNA PROFILE



Rubra King

- 11×6
- 19×3
- $22 + 24$
- $40 - 3$
- $52 \div 2$
- $55 - 20$
- 6×4
- $99 \div 3$
- $\frac{1}{2}$ of 88
- $27 + 26$
- 16×4
- $71 - 16$
- 33×2



Isaac Rook

- $38 + 5$
- 9×6
- $52 - 7$
- 6^2
- 3×9
- 10% of 380
- $41 + 6$
- 8×7
- $73 - 8$
- $148 \div 2$
- 21×3
- $26 + 26$
- $100 - 57$



Shay D. Pearson

- 8×4
- $17 + 6$
- $60 \div 5$
- $27 \div 9$
- $28 - 14$
- 10% of 50
- 4×4
- $\frac{1}{4}$ of 100
- 6^2
- 15×3
- $27 + 7$
- $50 - 7$
- 16×2



Birdie B. Rained

- 7×5
- $23 + 23$
- $45 - 8$
- 12×4
- $32 + 25$
- 34×2
- 11×7
- $72 - 6$
- $\frac{3}{4}$ of 100
- 8^2
- $32 + 23$
- $88 \div 2$
- $43 - 8$

GENOMETRY



GENOMETRY

WHERE GENES AND
GEOMETRY ALIGN

NAME OF ENCRYPTED
DNA PROFILE:

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

GENOMETRY



GENOMETRY

WHERE GENES AND
GEOMETRY ALIGN

NAME OF ENCRYPTED
DNA PROFILE:

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

• SPOILER ALERT •

The next page gives the answer to the puzzle.

IT DIDN'T ADD UP!

INVENTOR HERBIE RAINED CLEARED OF ALL CHARGES!

In a startling turn of events, Herbie Rained, the celebrated inventor behind the highly anticipated MagnoRail system, has been exonerated of all charges of corporate espionage, while Isaac Rook, CEO of Rook's Automotive, faces allegations of framing Rained in an elaborate scheme involving 'stolen' blueprints.

Rained was initially arrested after police discovered confidential Rook's Automotive blueprints hidden in his lab. However, a new investigation, spearheaded by a team of Rained's most trusted assistants, revealed crucial evidence pointing directly to Rook himself.

The breakthrough came from a DNA swab taken at the scene, which Rained had managed to collect just before his arrest. Using the Genometry Analyser, the team decrypted the DNA profiles of the suspects, revealing a match to Rook, conclusively proving his presence in the lab when the blueprints were planted.

Motivated by the potential threat MagnoRail posed to the automotive giant's

sales, Rook allegedly orchestrated the frame-up, hoping to remove Rained from the competitive landscape just before the annual Winnovate competition.

"I've always believe that the truth would come out," Rained said in a statement. "I'm so grateful to my incredible team for working tirelessly to clear my name. We can now get back to our work on MagnoRail in time for the competition."

As for Rook, he is now awaiting trial on charges of fraud, conspiracy, and tampering with evidence, marking a dramatic fall from grace for one of Arithmetown's most powerful figures.

Meanwhile, Rained is expected to resume his work on MagnoRail, which is the favourite to win the upcoming Winnovate competition.

Story continues on Page 5:

