

Locked Out

AMONG US

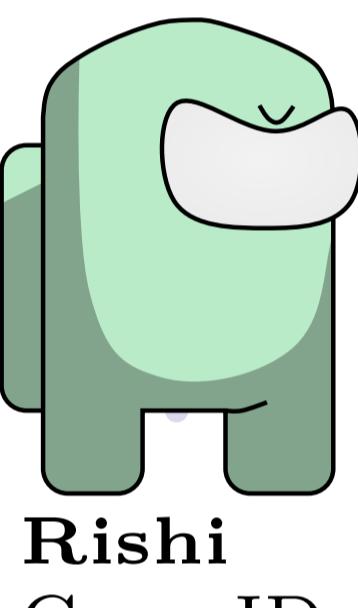
- Emergency protocols are active. One crewmate is not who they claim to be.
- Follow the evidence, complete your tasks, and eject the imposter before it's too late.

Each task uncovers part of the truth. Complete all three to expose the imposter and secure the ship.

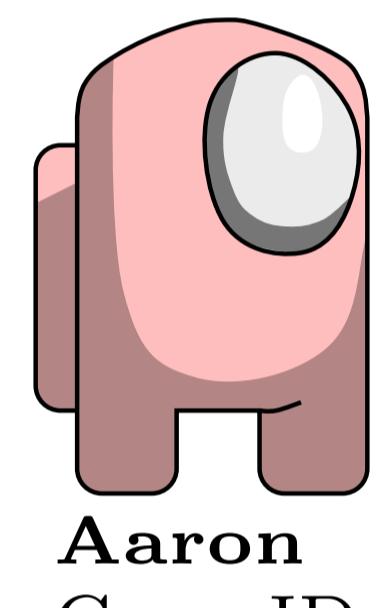
- Sabotaged Generator:** The ship's primary poly-core fuel system has been deliberately tampered with. The damage is careful, calculated, and anything but accidental.
- Anomaly Report:** Multiple irregularities were recorded in the Engine Room. Some are harmless system noise. Others are clear signs of interference.
- Crew Competency Review:** Mistakes happen under pressure — but one statement was intentionally false.



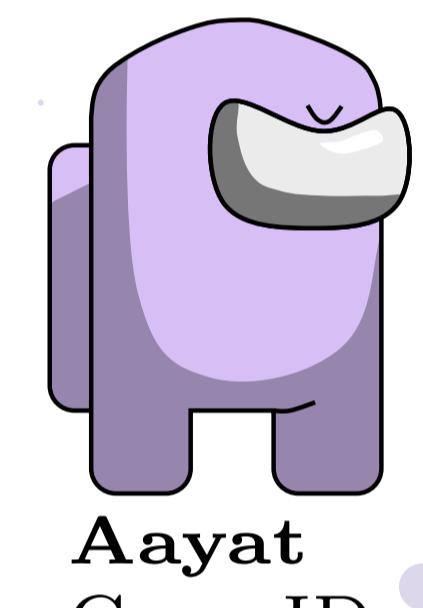
Ankeeth
Crew ID: 1



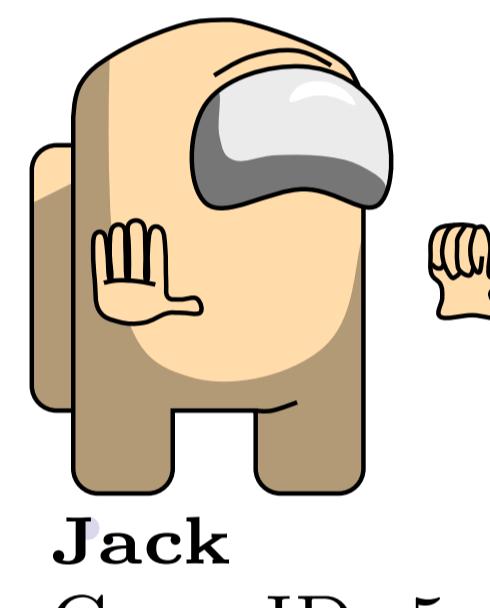
Rishi
Crew ID: 2



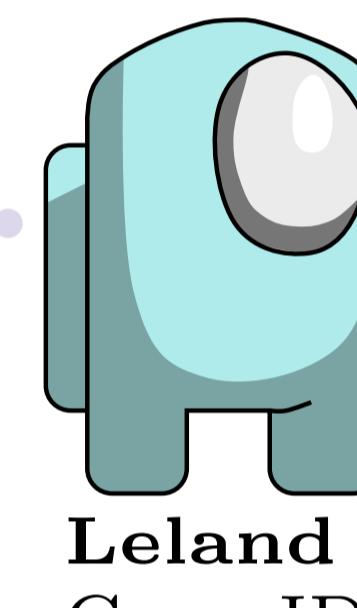
Aaron
Crew ID: 3



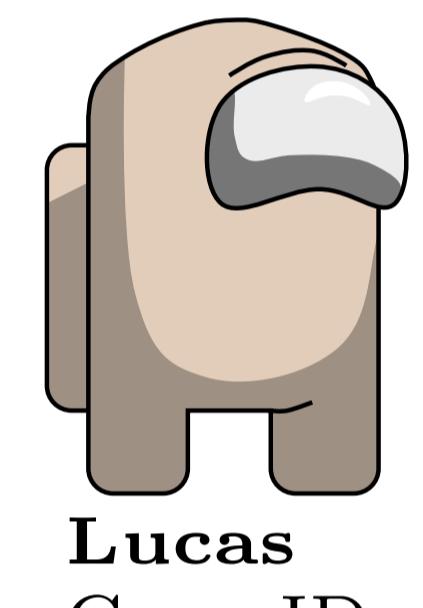
Aayat
Crew ID: 4



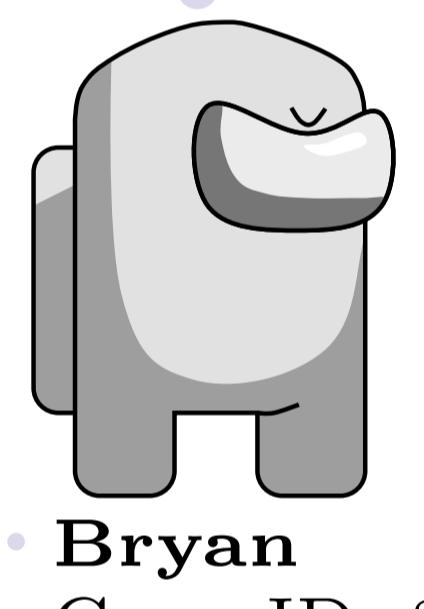
Jack
Crew ID: 5



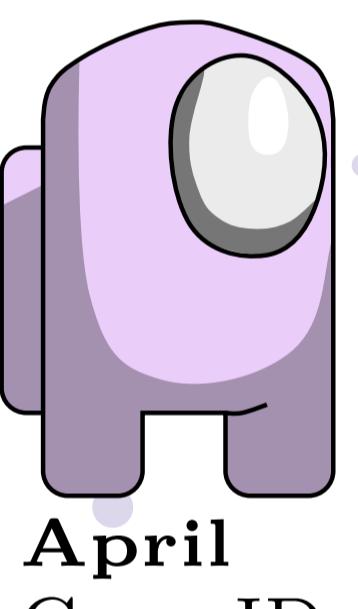
Leland
Crew ID: 6



Lucas
Crew ID: 7



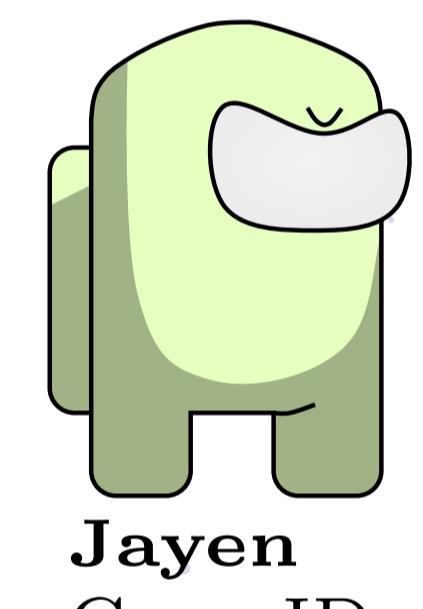
Bryan
Crew ID: 8



April
Crew ID: 9



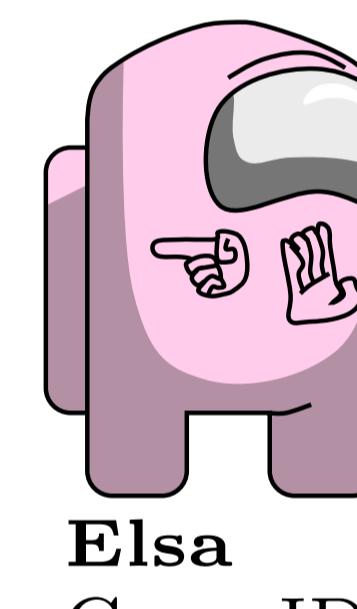
Michael
Crew ID: 10



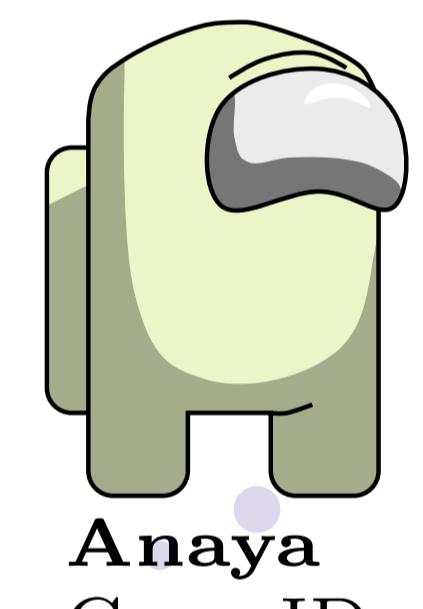
Jayen
Crew ID: 11



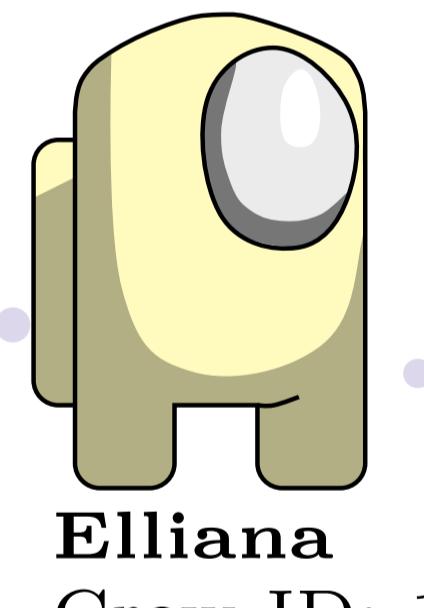
Lucas
Crew ID: 12



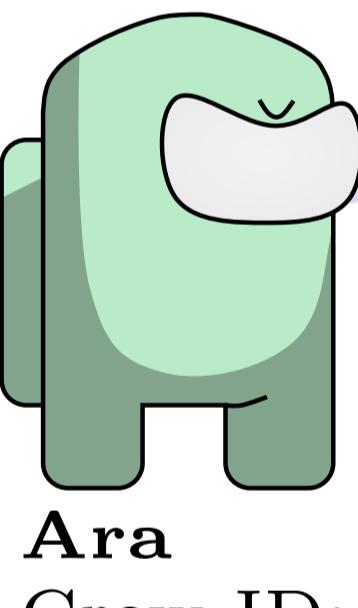
Elsa
Crew ID: 13



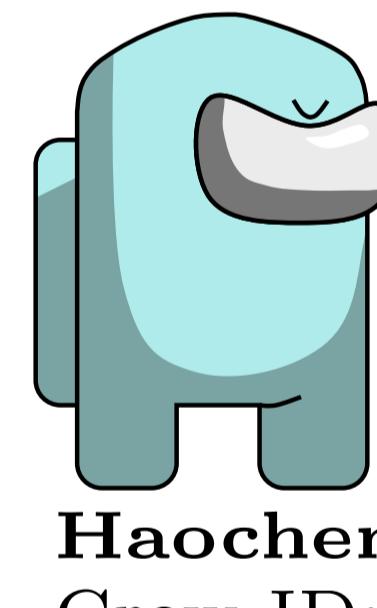
Anaya
Crew ID: 14



Elliana
Crew ID: 15



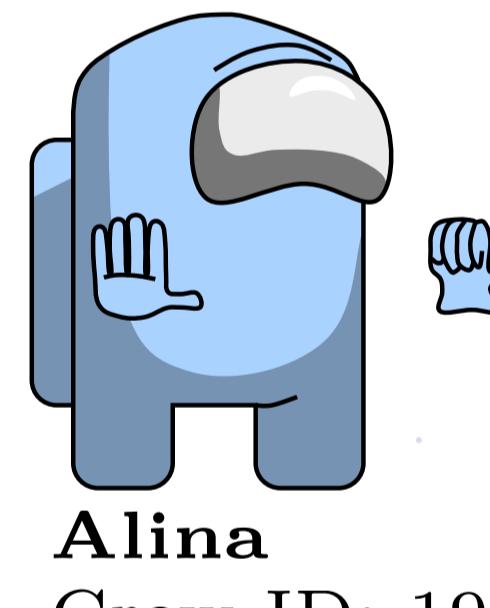
Ara
Crew ID: 16



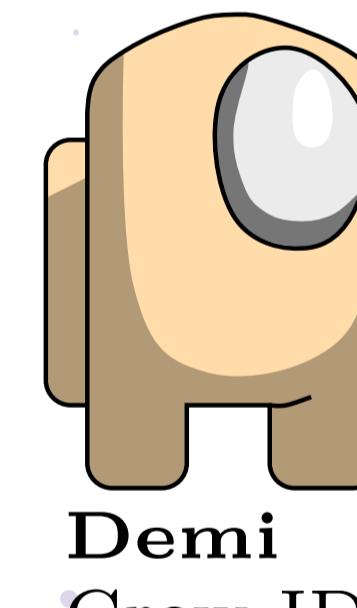
Haochen
Crew ID: 17



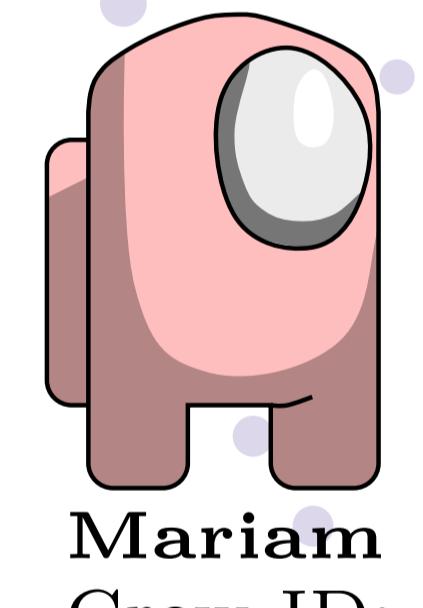
Prarthana
Crew ID: 18



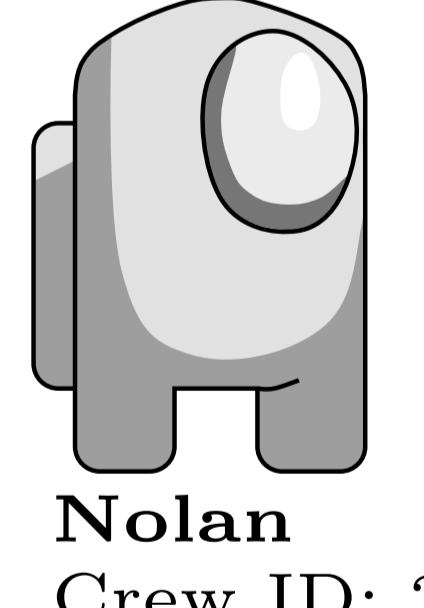
Alina
Crew ID: 19



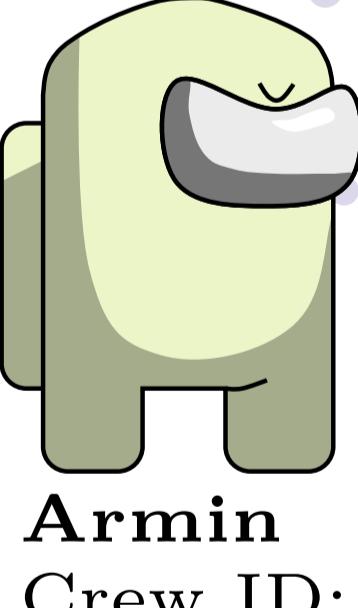
Demi
Crew ID: 20



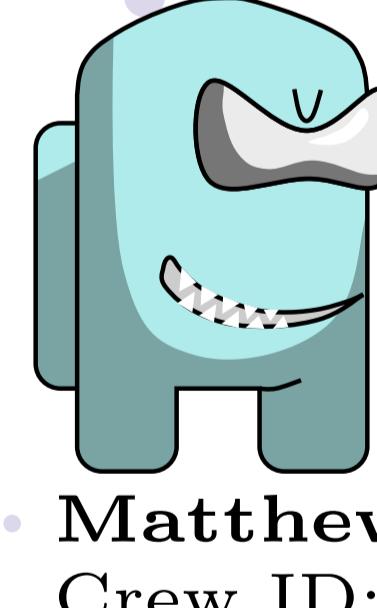
Mariam
Crew ID: 21



Nolan
Crew ID: 22



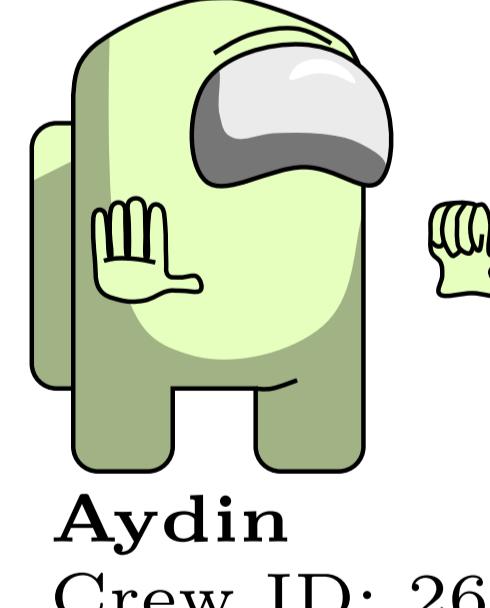
Armin
Crew ID: 23



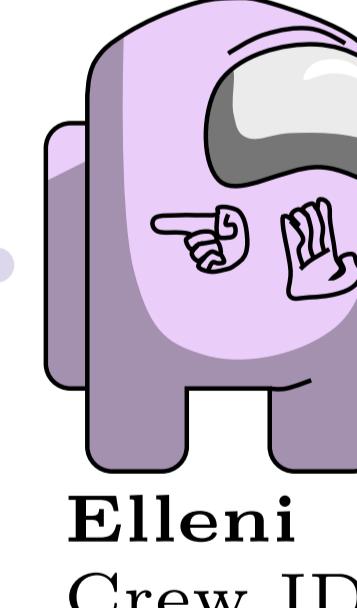
Matthew
Crew ID: 24



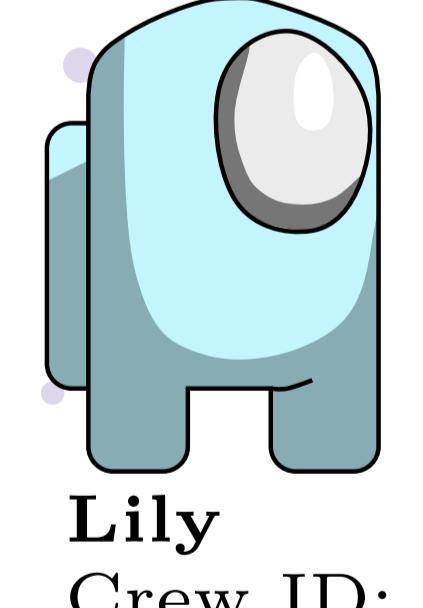
Michelle
Crew ID: 25



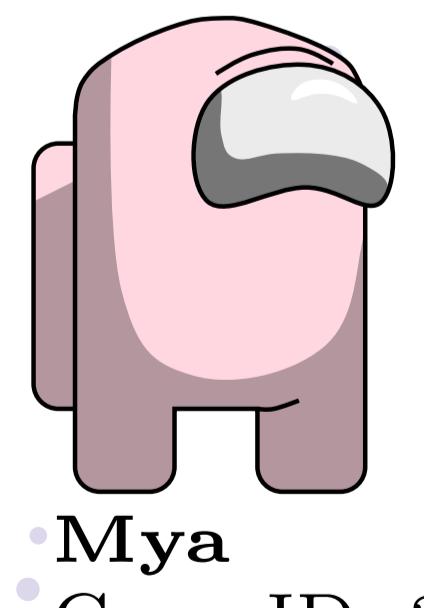
Aydin
Crew ID: 26



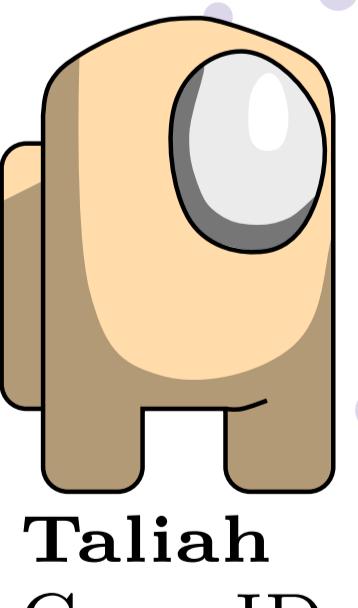
Eleni
Crew ID: 27



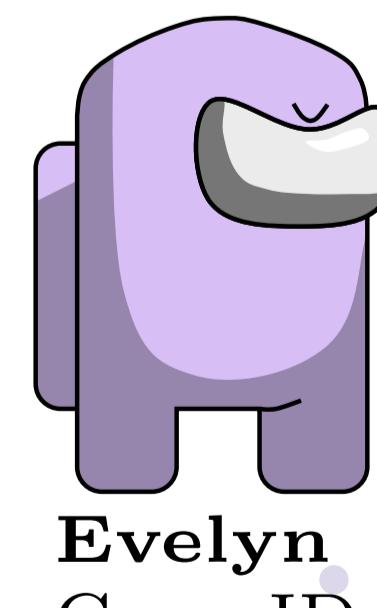
Lily
Crew ID: 28



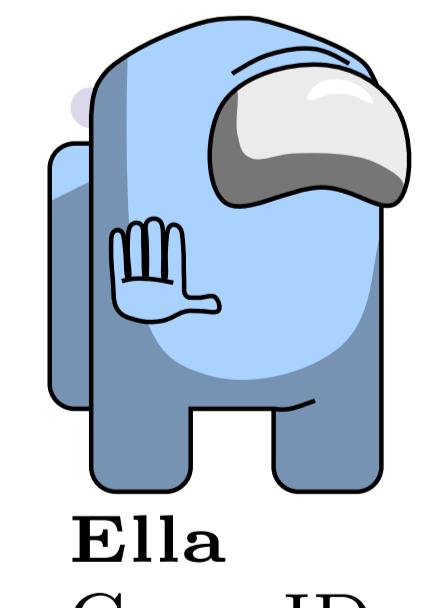
Mya
Crew ID: 29



Taliah
Crew ID: 30



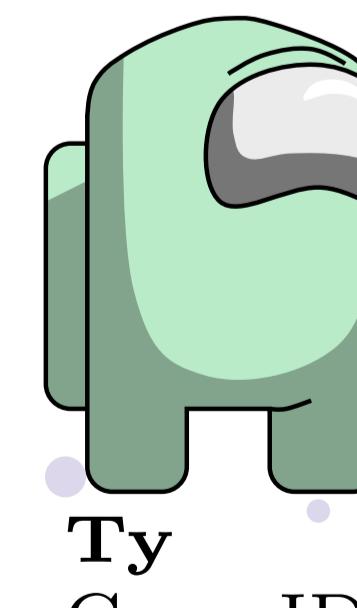
Evelyn
Crew ID: 31



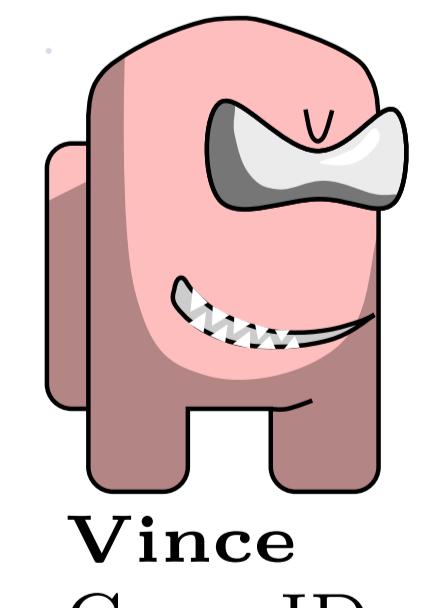
Ella
Crew ID: 32



Michelle
Crew ID: 33

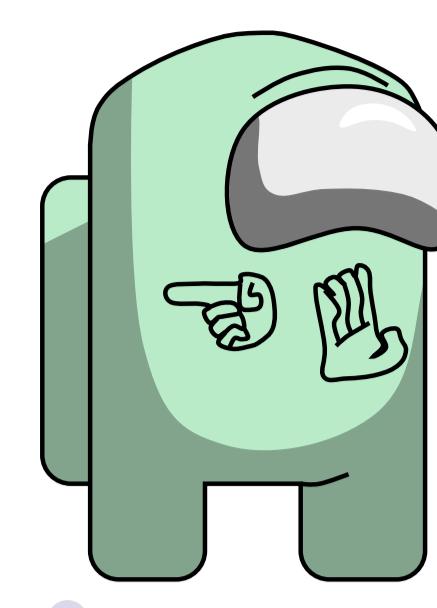


Ty
Crew ID: 34



Vince
Crew ID: 35

$$\sum[\text{Polycore Fix}] + \sum[\text{Anomalies Identified}] + \sum[\text{Competency Check}] + \text{ID}_{\text{Imposter}} = \boxed{\text{FINAL ANSWER}}$$



Repair the Sabotaged Generator

The imposter has sabotaged the Poly-Fuel Cell Generator. Its power source is built from modular fuel units known as *polycores*. Each polycore is a pentomino-shaped fuel cell with an associated polynomial.

Place every *polycore* into the generator grid. Every (non-shaded) space must be occupied. Be sure to have the polycores covering regions with their respective names. You may place the polycores in any orientation (flipped, rotated). The imposter *must* have been one of the crew members who accessed this system to sabotage it.

	$l(x)$				$p(x)$			
	$y(x)$			$c_2(x)$			$c_1(x)$	$p(x)$
		$p(x)$			$t(x)$			$t(x)$
		$t(x)$						$y(x)$
		$l(x)$		$c_5(x)$				
	$y(x)$			$p(x)$		$n(x)$	$f(x)$	
$y(x)$							$c_4(x)$	
	$c_3(x)$		$w(x)$					$p(x)$

SYSTEMS ACCESS LOG

E T H A K N E

I H S I R

O A R A N

T A A Y A

N L E A D L

N B Y A R

L P A R I

C H E H A N O

A N A P R A T H R

A M I A R M

A N O L N


E V I N C

Systems Check: Once you have placed all of the polycores determine:

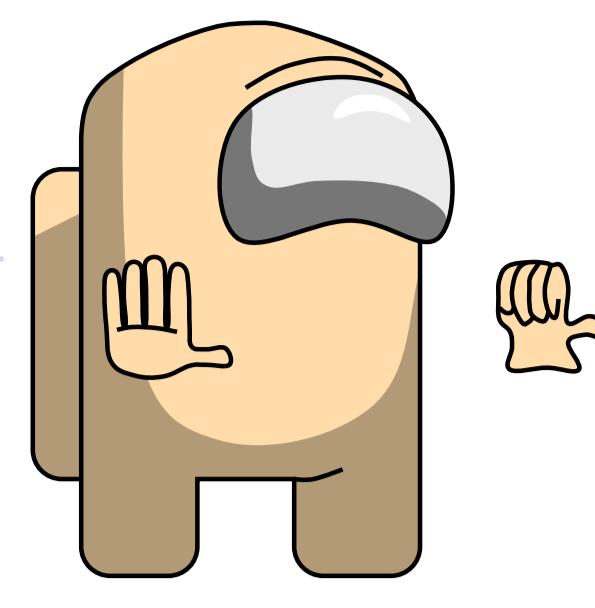
$$C(x) = c_1(x) \cdot c_2(x) \cdot c_3(x) \cdot c_4(x) \cdot c_5(x) = a_0x^n + a_1x^{n-1} + \cdots + a_nx^0.$$

Each $c_i(x)$ represents the same polynomial as its polycore region. The answer for this puzzle is:

$$\sum [\text{Polycore Fix}] = a_0 + a_1 + \cdots + a_n$$



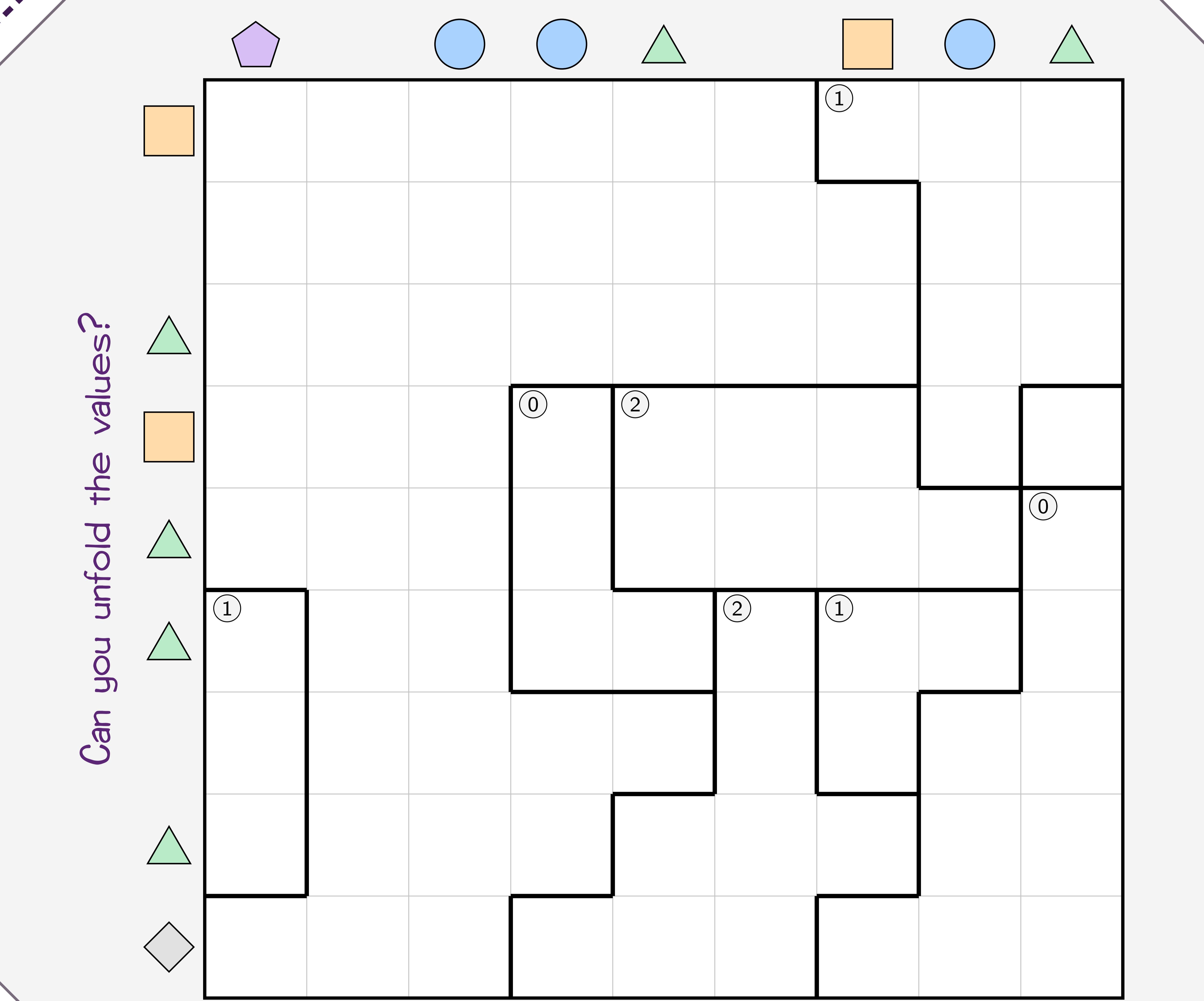
Fold the Universe



Identify Anomalies

The security systems are on high alert, with many anomalies detected in the Engine Room. Some of the anomalies are *surely* caused by the imposters sabotage. Shade the positions with anomalies in the grid below. There must be the indicated number of anomalies in each row and column and each anomaly must be horizontally/vertically adjacent to *exactly* one other anomaly.

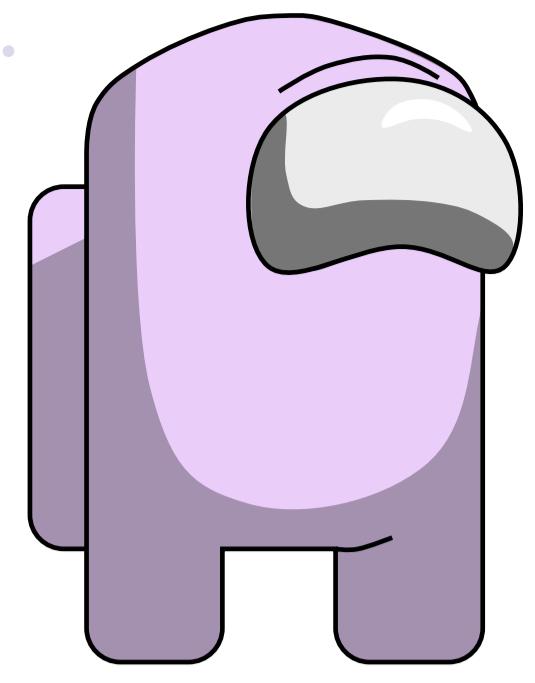
Can you unfold the values?



After you have identified all the suspects from this puzzle, sum their ID values for your answer:

$$\sum [\text{Anomalies Identified}] = \text{ID}_1 + \text{ID}_2 + \dots + \text{ID}_k$$

for the k suspects.



Competency Check

During routine diagnostics, the ship's autopilot flagged several crew members for submitting technical claims about ship systems, protocols, and mathematical principles encountered throughout the year.

Most mistakes are harmless — a rushed calculation, a forgotten rule, a bad assumption. The imposter is different: they are *intentionally* injecting false information to confuse the crew and spread lies.

Determine which crew members **pass** or **fail** the competency check.

Crew Member	Competency Check
Aaron (ID 3)	PASS <input type="radio"/> FAIL <input type="radio"/>
Aayat (ID 4)	PASS <input type="radio"/> FAIL <input type="radio"/>
Bryan (ID 8)	PASS <input type="radio"/> FAIL <input type="radio"/>
Michael (ID 10)	PASS <input type="radio"/> FAIL <input type="radio"/>
Elsa (ID 13)	PASS <input type="radio"/> FAIL <input type="radio"/>
Anaya (ID 14)	PASS <input type="radio"/> FAIL <input type="radio"/>
Prarthana (ID 18)	PASS <input type="radio"/> FAIL <input type="radio"/>
Alina (ID 19)	PASS <input type="radio"/> FAIL <input type="radio"/>
Demi (ID 20)	PASS <input type="radio"/> FAIL <input type="radio"/>
Mariam (ID 21)	PASS <input type="radio"/> FAIL <input type="radio"/>
Nolan (ID 22)	PASS <input type="radio"/> FAIL <input type="radio"/>
Armin (ID 23)	PASS <input type="radio"/> FAIL <input type="radio"/>
Matthew (ID 24)	PASS <input type="radio"/> FAIL <input type="radio"/>
Michelle (ID 25)	PASS <input type="radio"/> FAIL <input type="radio"/>
Aydin (ID 26)	PASS <input type="radio"/> FAIL <input type="radio"/>
Elleni (ID 27)	PASS <input type="radio"/> FAIL <input type="radio"/>
Lily (ID 28)	PASS <input type="radio"/> FAIL <input type="radio"/>
Mya (ID 29)	PASS <input type="radio"/> FAIL <input type="radio"/>

Once you are confident in your evaluations, identify the crew members who **fail** the competency check.

$$\sum [\text{Competency Check}] = \text{ID}_1 + \text{ID}_2 + \cdots + \text{ID}_k$$

for the k crew members whose statements are false.