

## Deduction Mysteries

### CASE 01

A cell culture was swapped from the PI office of Helix Bioresearch during the overnight window between 21:15 and 23:15. Investigators have narrowed the field to 6 suspects: Etienne (operations manager), Mikael (equipment manager), Leila (safety officer), Akhil (graduate student), Roksana (principal investigator), Eitan (lab technician).

#### Q Who swapped the cell culture?

1. Akhil's witness sighting places them at a hospital visit from 21:15 to roughly 23:15.
2. Roksana has no verifiable account of their whereabouts after 21:15.
3. Leila's badge swipe places them at a documented training session from 21:15 to roughly 23:15.
4. The sample tampering required firmware manipulation. Only Roksana, Eitan, Etienne have it among the suspects.
5. Mikael's badge swipe places them at a remote conference from 21:15 to roughly 23:15.
6. Roksana had outstanding financial debt, well-documented in HR records.
7. Lab badge access to the PI office is restricted to Roksana, Mikael, Akhil.
8. Eitan's witness sighting places them at an offsite location from 21:15 to roughly 23:15.
9. Etienne's badge swipe places them at a remote conference from 21:15 to roughly 23:15.
- 10 Roksana's lab badge was activated at 21:15 at the PI office.

A) Mikael	B) Etienne	C) Roksana	D) Eitan	E) Leila	F) Akhil
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### CASE 02

An expensive welding rod was taken from the customer pickup bay of Northgate Workshop during the overnight window between 20:00 and 22:15. Investigators have narrowed the field to 6 suspects: Roksana (parts clerk), Zinnia (painter), Caelan (apprentice), Katarina (shop manager), Ezra (quality inspector), Saoirse (master mechanic).

#### Q Who took the expensive welding rod?

1. Ezra's tool-checkout log places them at a documented training session from 20:00 to roughly 22:15.
2. Zinnia's shop key was activated at 20:00 at the customer pickup bay.
3. A discarded note near the scene briefly suggested Katarina's involvement, but it was later traced to an unrelated incident.
4. Zinnia had outstanding financial debt, well-documented in HR records.
5. The theft required encryption key generation. Only Zinnia, Ezra, Saoirse have it among the suspects.
6. Katarina's parts-room audit places them at a public event with hundreds of attendees from 20:00 to roughly 22:15.
7. Roksana's shop camera places them at an offsite location from 20:00 to roughly 22:15.
8. Zinnia has no verifiable account of their whereabouts after 20:00.
9. Shop key access to the customer pickup bay is restricted to Zinnia, Saoirse.
- 10 Caelan's tool-checkout log places them at a remote conference from 20:00 to roughly 22:15.
- 11 Saoirse's parts-room audit places them at a public event with hundreds of attendees from 20:00 to roughly 22:15.

## Deduction Mysteries

### CASE 03

A calibration kit was swapped from the prep bench of Coriolis Institute during the overnight window between 21:30 and 23:45. Investigators have narrowed the field to 6 suspects: Zephyr (visiting scientist), Anastasia (safety officer), Roksana (operations manager), Marisol (undergraduate volunteer), Octavia (graduate student), Magnus (lab technician).

#### Q Who swapped the calibration kit?

1. Zephyr has no verifiable account of their whereabouts after 21:30.
2. Zephyr had outstanding financial debt, well-documented in HR records.
3. Roksana's sample log places them at a hospital visit from 21:30 to roughly 23:45.
4. Magnus's equipment timestamp places them at a public event with hundreds of attendees from 21:30 to roughly 23:45.
5. The sample tampering required advanced lock-picking expertise. Only Zephyr, Roksana, Octavia have it among the suspects.
6. Anastasia's witness sighting places them at a remote conference from 21:30 to roughly 23:45.
7. Octavia's equipment timestamp places them at a public event with hundreds of attendees from 21:30 to roughly 23:45.
8. Zephyr's lab badge was activated at 21:30 at the prep bench.
9. Marisol's equipment timestamp places them at a documented training session from 21:30 to roughly 23:45.
- 10 Lab badge access to the prep bench is restricted to Roksana, Zephyr.

A) Roksana	B) Octavia	C) Marisol	D) Anastasia	E) Magnus	F) Zephyr
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### CASE 04

A confidential memo was taken from the data center of Helix Corporation during the overnight window between 19:10 and 21:45. Investigators have narrowed the field to 5 suspects: Sora (senior engineer), Magnus (CFO), Klaus (legal counsel), Indira (records clerk), Arjun (executive assistant).

#### Q Who took the confidential memo?

1. Document-room code access to the data center is restricted to Klaus, Sora, Magnus.
2. Magnus's VPN session log places them at a documented training session from 19:10 to roughly 21:45.
3. Klaus has no verifiable account of their whereabouts after 19:10.
4. Klaus's document-room code was activated at 19:10 at the data center.
5. Klaus had a documented grievance, well-documented in HR records.
6. The corporate theft required advanced lock-picking expertise. Only Klaus, Arjun, Indira have it among the suspects.
7. Sora's printer log places them at a hospital visit from 19:10 to roughly 21:45.
8. Arjun's witness account places them at a documented training session from 19:10 to roughly 21:45.
9. Indira's door access record places them at a hospital visit from 19:10 to roughly 21:45.

A) Magnus	B) Klaus	C) Arjun	D) Sora	E) Indira
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## Deduction Mysteries

### CASE 05

An oil painting was taken from the main exhibition hall of Argent Gallery during the overnight window between 19:15 and 21:15. Investigators have narrowed the field to 6 suspects: Jules (archivist), Odell (art restorer), Daphne (tour guide), Aleksandr (docent), Hadley (security guard), Enzo (exhibition designer).

#### Q Who took the oil painting?

1. The theft required firmware manipulation. Only Jules, Hadley, Daphne have it among the suspects.
2. Odell's witness testimony places them at an offsite location from 19:15 to roughly 21:15.
3. Hadley's elevator log places them at a public event with hundreds of attendees from 19:15 to roughly 21:15.
4. Enzo's motion sensor places them at a public event with hundreds of attendees from 19:15 to roughly 21:15.
5. A discarded note near the scene briefly suggested Daphne's involvement, but it was later traced to an unrelated incident.
6. Jules had passed-over promotion, well-documented in HR records.
7. Aleksandr's security camera places them at a documented training session from 19:15 to roughly 21:15.
8. Master key access to the main exhibition hall is restricted to Jules, Aleksandr.
9. Daphne's elevator log places them at a remote conference from 19:15 to roughly 21:15.
- 10 Jules's master key was activated at 19:15 at the main exhibition hall.
- 11 Jules has no verifiable account of their whereabouts after 19:15.

### CASE 06

A genealogy register was taken from the archive stacks of Pemberton Genealogy Center during the overnight window between 21:00 and 23:15. Investigators have narrowed the field to 6 suspects: Mauro (head archivist), Bao (genealogist), Arjun (clerk), Talia (records administrator), Juno (researcher), Mei (security officer).

#### Q Who took the genealogy register?

1. Talia's witness patron places them at a hospital visit from 21:00 to roughly 23:15.
2. Bao has no verifiable account of their whereabouts after 21:00.
3. The theft required advanced lock-picking expertise. Only Bao, Juno, Mauro have it among the suspects.
4. Juno's badge swipe places them at a remote conference from 21:00 to roughly 23:15.
5. Bao's vault key was activated at 21:00 at the archive stacks.
6. A discarded note near the scene briefly suggested Juno's involvement, but it was later traced to an unrelated incident.
7. Mauro's witness patron places them at an offsite location from 21:00 to roughly 23:15.
8. Arjun's archive log places them at an offsite location from 21:00 to roughly 23:15.
9. Mei's reading-room sign-in places them at a hospital visit from 21:00 to roughly 23:15.
- 10 Vault key access to the archive stacks is restricted to Bao, Arjun, Mauro.
- 11 Bao had an ongoing dispute with management, well-documented in HR records.

A) Juno	B) Mauro	C) Mei	D) Arjun	E) Talia	F) Bao
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## Answer Key – Deduction Mysteries

Solve before peeking. Correct suspect and key reasoning steps below.

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### Case 01 C) Roksana

- ❑ The sample tampering required firmware manipulation, lab badge, and a motivating reason.
  - ❑ Etienne has the skill but no lab badge – cleared.
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### Case 02 F) Zinnia

- ❑ The theft required encryption key generation, shop key, and a motivating reason.
  - ❑ Roksana lacks the required encryption key generation – cleared.
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### Case 03 F) Zephyr

- ❑ The sample tampering required advanced lock-picking expertise, lab badge, and a motivating reason.
  - ❑ Anastasia lacks the required advanced lock-picking expertise – cleared.
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### Case 04 B) Klaus

- ❑ The corporate theft required advanced lock-picking expertise, document-room code, and a motivating reason.
  - ❑ Sora lacks the required advanced lock-picking expertise – cleared.
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### Case 05 C) Jules

- ❑ The theft required firmware manipulation, master key, and a motivating reason.
  - ❑ Odell lacks the required firmware manipulation – cleared.
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### Case 06 F) Bao

- ❑ The theft required advanced lock-picking expertise, vault key, and a motivating reason.
  - ❑ Mauro has skill and access but a verified alibi places them offsite – cleared.
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