

## Deduction Mysteries

### CASE 01

A calibration kit was swapped from the sequencing room of Helix Bioresearch during the overnight window between 01:00 and 04:30. The operation required specific qualifications, access, and timing. 7 suspects are under investigation: Gisela (equipment manager), Magnus (undergraduate volunteer), Bjorn (postdoctoral researcher), Kasper (principal investigator), Klaus (graduate student), Zara (safety officer), Rosalind (clinical coordinator). Several have strong-looking motives.

#### Q Who swapped the calibration kit?

1. Kasper's freezer access log shows them off-site the entire window.
2. Klaus has only elevated system privileges of the four requirements.
3. But: however the DHCP log shows their vehicle remained in the lot until well after 01:00.
4. Bjorn has only administrator credentials of the four requirements.
5. Magnus has all four requirements: elevated system privileges, administrator credentials, familiarity with the security routing, and meets the temporal requirement (presence between 01:00 and 04:30).
6. The sample tampering involved a hand-machined tool stocked in only one closet.
7. Zara has elevated system privileges and administrator credentials – initial suspicion was high.
8. Gisela was passed over for a recent promotion – appears to have motive.
9. Magnus claims to have exited the building at 23:00 – the official badge log confirms this.
- 10 Zara clashed publicly with management – appears to have motive.
- 11 Four independent requirements: elevated system privileges, administrator credentials, presence between 01:00 and 04:30, and familiarity with the security routing.
- 12 However: Rosalind is cleared – but their lab badge was revoked the day before – confirmed in the security audit.

### CASE 02

The hospital ID badges were taken from the administrator office of Helix Health Center during the overnight window between 00:45 and 03:15. The operation required specific qualifications, access, and timing. 8 suspects are under investigation: Theo (volunteer), Tarek (head nurse), Akhil (administrator), Selene (technician), Wren (pharmacist), Odell (medical resident), Fariha (social worker), Ravi (attending physician). Several have strong-looking motives.

#### Q Who took the hospital ID badges?

1. Selene was passed over for a recent promotion – appears to have motive.
2. Initial assumption pointed to Theo because of proximity to the scene earlier, but this has been independently ruled out.
3. Tarek lacks clearance to the restricted archive – confirmed by personnel records.
4. Ravi has authorization to handle the item and a verified relationship with the donor and clearance to the restricted archive – initial suspicion was high.
5. However: Theo is cleared – but they were on a documented overnight flight, verified by airline records.
6. However: Ravi is cleared – but their administrator code was revoked the day before – confirmed in the security audit.
7. Ravi was passed over for a recent promotion – appears to have motive.
8. Wren lacks clearance to the restricted archive – confirmed by personnel records.
9. Theo filed a grievance two weeks ago – appears to have motive.
- 10 The trace at the scene (a hand-machined tool stocked in only one closet) ties directly to inventory or systems uniquely accessible to Odell.
- 11 Fariha lacks a verified relationship with the donor – security audit confirms.

## Deduction Mysteries

### CASE 03

The locker contents were taken from the locker room of Aldermarsh Arena during the overnight window between 02:15 and 05:00. The operation required specific qualifications, access, and timing. 8 suspects are under investigation: Alessio (assistant coach), Lana (team statistician), Hakim (equipment manager), Enzo (referee), Renata (facilities manager), Galina (athletic trainer), Ezra (rookie player), Caelan (head coach). Several have strong-looking motives.

#### Q Who took the locker contents?

1. Lana's time-clock record shows them off-site the entire window.
2. Renata has a verified relationship with the donor and elevated system privileges and possession of the specific tool used – initial suspicion was high.
3. However: Hakim is cleared – but two independent witnesses confirm a video call with them throughout the window.
4. Enzo has only a verified relationship with the donor of the four requirements.
5. Galina lacks elevated system privileges – confirmed by personnel records.
6. Ezra was passed over for a recent promotion – appears to have motive.
7. The theft involved a network certificate signed by senior staff.
8. But: however the unsecured service entrance doesn't require a badge to re-enter.
9. Initial assumption pointed to Lana because of proximity to the scene earlier, but this has been independently ruled out.
- 10 Ezra has elevated system privileges and possession of the specific tool used – initial suspicion was high.
- 11 Alessio lacks a verified relationship with the donor – security audit confirms.
- 12 However: Renata is cleared – but two independent witnesses confirm a video call with them throughout the window.

### CASE 04

An ancient scroll was taken from the prep workshop of Aldworth Collection during the overnight window between 02:30 and 06:15. The operation required specific qualifications, access, and timing. 8 suspects are under investigation: Caelan (janitor), Enzo (curator), Jian (gift shop manager), Idris (docent), Helena (archivist), Quentin (art restorer), Tomas (exhibition designer), Cosima (security guard). Several have strong-looking motives.

#### Q Who took the ancient scroll?

1. However: Idris is cleared – but their keycard was revoked the day before – confirmed in the security audit.
2. Enzo lacks specialized engineering certification – confirmed by personnel records.
3. Quentin had financial pressure – appears to have motive.
4. Jian lacks specialized engineering certification – confirmed by personnel records.
5. Tomas's door sensor shows them off-site the entire window.
6. Helena was officially signed out at 22:50 via the front-desk register.
7. Quentin has specialized engineering certification and familiarity with the security routing – initial suspicion was high.
8. Cosima has familiarity with the security routing and clean-room or vault clearance – initial suspicion was high.
9. The trace at the scene (an encryption signature tied to the internal training network) ties directly to inventory or systems uniquely accessible to Helena.
- 10 Initial assumption pointed to Quentin because of proximity to the scene earlier, but this has been independently ruled out.
- 11 However: Cosima is cleared – but their elevator access was revoked the day before – confirmed in the security audit.

## Deduction Mysteries

### CASE 05

A prop weapon was taken from the dressing room of Northgate Stage during the overnight window between 02:30 and 06:00. The operation required specific qualifications, access, and timing. 8 suspects are under investigation: Yara (stagehand), Alejandro (stage manager), Gunnar (prop master), Simeon (lighting tech), Noor (box-office manager), Kasper (costume designer), Amari (lead actor), Bjorn (director). Several have strong-looking motives.

#### Q Who took the prop weapon?

1. Kasper has clearance to the restricted archive and knowledge of the seal serial pattern and administrator credentials – initial suspicion was high.
2. However: Kasper is cleared – but they were on a documented overnight flight, verified by airline records.
3. Yara had financial pressure – appears to have motive.
4. Kasper clashed publicly with management – appears to have motive.
5. Gunnar has knowledge of the seal serial pattern and clearance to the restricted archive – initial suspicion was high.
6. Initial assumption pointed to Yara because of public friction with management, but this has been independently ruled out.
7. Four independent requirements: clearance to the restricted archive, administrator credentials, presence between 02:30 and 06:00, and knowledge of the seal serial pattern.
8. However: Gunnar is cleared – but they were on a documented overnight flight, verified by airline records.
9. Simeon has only knowledge of the seal serial pattern of the four requirements.
- 10 Yara has clearance to the restricted archive and knowledge of the seal serial pattern – initial suspicion was high.

### CASE 06

The pharmacy keys were taken from the blood bank of Pemberton Medical during the overnight window between 01:15 and 04:30. The operation required specific qualifications, access, and timing. 8 suspects are under investigation: Eitan (attending physician), Selene (pharmacist), Omari (administrator), Mira (head nurse), Suri (medical resident), Zinnia (technician), Idris (janitor), Kasimir (social worker). Several have strong-looking motives.

#### Q Who took the pharmacy keys?

1. Initial assumption pointed to Kasimir because of public friction with management, but this has been independently ruled out.
2. Suri lacks elevated system privileges – confirmed by personnel records.
3. Idris has all four requirements: elevated system privileges, a verified relationship with the donor, authorization to handle the item, and meets the temporal requirement (presence between 01:15 and 04:30).
4. But: however the DHCP log shows their vehicle remained in the lot until well after 01:15.
5. Zinnia lacks a verified relationship with the donor – security audit confirms.
6. Mira has authorization to handle the item and elevated system privileges and a verified relationship with the donor – initial suspicion was high.
7. Eitan filed a grievance two weeks ago – appears to have motive.
8. Idris their video call ended at 23:20 according to the system.
9. Kasimir lacks a verified relationship with the donor – security audit confirms.
- 10 However: Eitan is cleared – but they were on a documented overnight flight, verified by airline records.
- 11 Mira had financial pressure – appears to have motive.

## Answer Key – Deduction Mysteries

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

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### Case 01 B) Magnus

- ☒ Four requirements (elevated system privileges, administrator credentials, presence between 01:00 and 04:30, familiarity with the security routing) plus a unique technical trace narrow the case.
  - ☒ Rosalind appears guilty (has multiple requirements, has motive) but is cleared by an independent verification.
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### Case 02 undefined) Odell

- ☒ Four requirements (clearance to the restricted archive, a verified relationship with the donor, presence between 00:45 and 03:15, authorization to handle the item) plus a unique technical trace narrow the case.
  - ☒ Theo appears guilty (has multiple requirements, has motive) but is cleared by an independent verification.
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### Case 03 undefined) Caelan

- ☒ Four requirements (elevated system privileges, a verified relationship with the donor, presence between 02:15 and 05:00, possession of the specific tool used) plus a unique technical trace narrow the case.
  - ☒ Hakim appears guilty (has multiple requirements, has motive) but is cleared by an independent verification.
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### Case 04 E) Helena

- ☒ Four requirements (specialized engineering certification, clean-room or vault clearance, presence between 02:30 and 06:15, familiarity with the security routing) plus a unique technical trace narrow the case.
  - ☒ Quentin appears guilty (has multiple requirements, has motive) but is cleared by an independent verification.
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### Case 05 B) Bjorn

- ☒ Four requirements (clearance to the restricted archive, administrator credentials, presence between 02:30 and 06:00, knowledge of the seal serial pattern) plus a unique technical trace narrow the case.
  - ☒ Kasper appears guilty (has multiple requirements, has motive) but is cleared by an independent verification.
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### Case 06 C) Idris

- ☒ Four requirements (elevated system privileges, a verified relationship with the donor, presence between 01:15 and 04:30, authorization to handle the item) plus a unique technical trace narrow the case.
- ☒ Mira appears guilty (has multiple requirements, has motive) but is cleared by an independent verification.