

## Deduction Mysteries

### CASE 01

A special collection key was taken from the curator office of Quartermaine Archive during the overnight window between 02:30 and 05:00. The operation required specific qualifications, access, and timing. 7 suspects are under investigation: Quincy (head librarian), Dimah (intern), Hakim (reference librarian), Lior (cataloger), Galina (research assistant), Emiko (visiting scholar), Jian (archivist). Several have strong-looking motives.

#### Q Who took the special collection key?

1. However: Emiko is cleared – but they were on a documented overnight flight, verified by airline records.
2. The trace at the scene (a network certificate signed by senior staff) ties directly to inventory or systems uniquely accessible to Quincy.
3. However: Jian is cleared – but their staff key was revoked the day before – confirmed in the security audit.
4. Hakim has only familiarity with the security routing of the four requirements.
5. But: however DHCP log records show they re-authenticated from an internal network at 1:30.
6. Dimah has only elevated system privileges of the four requirements.
7. The theft involved a network certificate signed by senior staff.
8. Emiko has elevated system privileges and documented hands-on history with the item – initial suspicion was high.
9. Galina has documented hands-on history with the item and familiarity with the security routing – initial suspicion was high.
- 10 Quincy has all four requirements: elevated system privileges, documented hands-on history with the item, familiarity with the security routing, and meets the temporal requirement (presence between 02:30 and 05:00).

### CASE 02

The pharmacy keys were taken from the pharmacy of Brierfield Hospital during the overnight window between 00:00 and 04:15. The operation required specific qualifications, access, and timing. 7 suspects are under investigation: Rhys (social worker), Bao (attending physician), Saoirse (head nurse), Wren (pharmacist), Ravi (volunteer), Octavia (technician), Rosalind (administrator). Several have strong-looking motives.

#### Q Who took the pharmacy keys?

1. The trace at the scene (an encryption signature tied to the internal training network) ties directly to inventory or systems uniquely accessible to Ravi.
2. The theft involved an encryption signature tied to the internal training network.
3. Rhys has a master key issued only to senior staff and a verified relationship with the donor – initial suspicion was high.
4. Rosalind has familiarity with the security routing and a master key issued only to senior staff and a verified relationship with the donor – initial suspicion was high.
5. Initial assumption pointed to Wren because of public friction with management, but this has been independently ruled out.
6. Four independent requirements: a master key issued only to senior staff, a verified relationship with the donor, presence between 00:00 and 04:15, and familiarity with the security routing.
7. However: Bao is cleared – but they were on a documented overnight flight, verified by airline records.
8. Bao has familiarity with the security routing and a verified relationship with the donor – initial suspicion was high.
9. Saoirse lacks a verified relationship with the donor – security audit confirms.
- 10 However: Rhys is cleared – but witness staff places them at the hospital with a family emergency during the entire window.

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### CASE 03

An internal API key was extracted from the server farm of Quartermaine Cyber during the overnight window between 01:30 and 04:30. The operation required specific qualifications, access, and timing. 7 suspects are under investigation: Penelope (DevOps lead), Etienne (intern), Finnegan (site-reliability engineer), Lior (CTO), Kasper (support lead), Mikael (product manager), Nizar (senior engineer). Several have strong-looking motives.

#### Q Who extracted the internal API key?

1. Nizar has possession of the specific tool used 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. The data theft involved a seal cut with a serial pattern from a specific supply.
4. Lior has administrator credentials and elevated system privileges – initial suspicion was high.
5. Kasper has administrator credentials and elevated system privileges – initial suspicion was high.
6. Lior filed a grievance two weeks ago – appears to have motive.
7. The trace at the scene (a seal cut with a serial pattern from a specific supply) ties directly to inventory or systems uniquely accessible to Finnegan.
8. Finnegan has all four requirements: elevated system privileges, administrator credentials, possession of the specific tool used, and meets the temporal requirement (presence between 01:30 and 04:30).
9. Mikael has only administrator credentials of the four requirements.
10. However: Lior is cleared – but two independent witnesses confirm a video call with them throughout the window.
11. Four independent requirements: elevated system privileges, administrator credentials, presence between 01:30 and 04:30, and possession of the specific tool used.

### CASE 04

The encryption keys were extracted from the engineer pod of Northgate Systems during the overnight window between 02:45 and 05:30. The operation required specific qualifications, access, and timing. 7 suspects are under investigation: Faye (contractor), Indira (security analyst), Cyrus (data scientist), Zephyr (support lead), Maeve (CTO), Jules (product manager), Polina (senior engineer). Several have strong-looking motives.

#### Q Who extracted the encryption keys?

1. Zephyr's MFA token log shows them off-site the entire window.
2. However: Maeve is cleared – but they were on a documented overnight flight, verified by airline records.
3. However: Polina is cleared – but they were on a documented overnight flight, verified by airline records.
4. Indira has all four requirements: clearance to the restricted archive, administrator credentials, knowledge of the seal serial pattern, and meets the temporal requirement (presence between 02:45 and 05:30).
5. Maeve has clearance to the restricted archive and administrator credentials – initial suspicion was high.
6. The data theft involved a foam replica skillfully painted with restoration-grade spray paint.
7. Cyrus lacks clearance to the restricted archive – confirmed by personnel records.
8. Indira their video call ended at 22:15 according to the system.
9. Maeve had financial pressure – appears to have motive.
10. Jules has clearance to the restricted archive and administrator credentials and knowledge of the seal serial pattern – initial suspicion was high.

## Deduction Mysteries

### CASE 05

A client contract data was extracted from the network closet of Atlas Cloud during the overnight window between 00:15 and 04:30. The operation required specific qualifications, access, and timing. 7 suspects are under investigation: Bayan (product manager), Odell (contractor), Faye (DevOps lead), Tarek (intern), Florian (security analyst), Idris (senior engineer), Wren (site-reliability engineer). Several have strong-looking motives.

#### Q Who extracted the client contract data?

1. Bayan lacks administrator credentials – security audit confirms.
2. Idris filed a grievance two weeks ago – appears to have motive.
3. The data theft involved an encryption signature tied to the internal training network.
4. Florian has a master key issued only to senior staff and administrator credentials and familiarity with the security routing – initial suspicion was high.
5. But: however the VPN session record shows their vehicle remained in the lot until well after 00:15.
6. Four independent requirements: a master key issued only to senior staff, administrator credentials, presence between 00:15 and 04:30, and familiarity with the security routing.
7. Faye their video call ended at 22:45 according to the system.
8. However: Idris is cleared – but witness colleague places them at the hospital with a family emergency during the entire window.
9. Initial assumption pointed to Wren because of being seen near the building, but this has been independently ruled out.
- 10 Florian filed a grievance two weeks ago – appears to have motive.
- 11 However: Tarek is cleared – but their admin token was revoked the day before – confirmed in the security audit.
- 12 Idris has a master key issued only to senior staff and administrator credentials – initial suspicion was high.

### CASE 06

A championship ring was taken from the trophy display case of Saint-Clair Field House during the overnight window between 02:30 and 06:45. The operation required specific qualifications, access, and timing. 7 suspects are under investigation: Yvonne (team captain), Florian (referee), Caelan (team statistician), Cassia (equipment manager), Hiroshi (star player), Ezra (assistant coach), Kai (facilities manager). Several have strong-looking motives.

#### Q Who took the championship ring?

1. But: however the DHCP log shows their vehicle remained in the lot until well after 02:30.
2. The theft involved a seal cut with a serial pattern from a specific supply.
3. Ezra has a verified relationship with the donor and familiarity with the security routing and clearance to the restricted archive – initial suspicion was high.
4. Florian has familiarity with the security routing and clearance to the restricted archive – initial suspicion was high.
5. Hiroshi has familiarity with the security routing and a verified relationship with the donor and clearance to the restricted archive – initial suspicion was high.
6. Four independent requirements: clearance to the restricted archive, a verified relationship with the donor, presence between 02:30 and 06:45, and familiarity with the security routing.
7. However: Ezra is cleared – but they were on a documented overnight flight, verified by airline records.
8. Yvonne's badge log shows them off-site the entire window.
9. However: Hiroshi is cleared – but they were on a documented overnight flight, verified by airline records.
- 10 Cassia their video call ended at 23:25 according to the system.

## Answer Key – Deduction Mysteries

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

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### Case 01 A) Quincy

- Four requirements (elevated system privileges, documented hands-on history with the item, presence between 02:30 and 05:00, familiarity with the security routing) plus a unique technical trace narrow the case.
  - Jian appears guilty (has multiple requirements, has motive) but is cleared by an independent verification.
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### Case 02 D) Ravi

- Four requirements (a master key issued only to senior staff, a verified relationship with the donor, presence between 00:00 and 04:15, familiarity with the security routing) plus a unique technical trace narrow the case.
  - Bao appears guilty (has multiple requirements, has motive) but is cleared by an independent verification.
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### Case 03 undefined) Finnegan

- Four requirements (elevated system privileges, administrator credentials, presence between 01:30 and 04:30, possession of the specific tool used) plus a unique technical trace narrow the case.
  - Nizar appears guilty (has multiple requirements, has motive) but is cleared by an independent verification.
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### Case 04 B) Indira

- Four requirements (clearance to the restricted archive, administrator credentials, presence between 02:45 and 05:30, knowledge of the seal serial pattern) plus a unique technical trace narrow the case.
  - Jules appears guilty (has multiple requirements, has motive) but is cleared by an independent verification.
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### Case 05 E) Faye

- Four requirements (a master key issued only to senior staff, administrator credentials, presence between 00:15 and 04:30, familiarity with the security routing) plus a unique technical trace narrow the case.
  - Florian appears guilty (has multiple requirements, has motive) but is cleared by an independent verification.
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### Case 06 F) Cassia

- Four requirements (clearance to the restricted archive, a verified relationship with the donor, presence between 02:30 and 06:45, familiarity with the security routing) plus a unique technical trace narrow the case.
- Florian appears guilty (has multiple requirements, has motive) but is cleared by an independent verification.