

Deduction Mysteries

CASE 01

A member roster was taken from the equipment shed of Northgate Athletic Club during the overnight window between 01:00 and 04:00. The operation required specific qualifications, access, and timing. 7 suspects are under investigation: Bjorn (team statistician), Dimitri (equipment manager), Priya (facilities manager), Roksana (assistant coach), Yusuf (head coach), Dario (star player), Polina (athletic trainer). Several have strong-looking motives.

Q Who took the member roster?

1. Polina was officially signed out at 22:55 via the front-desk register.
2. Polina has all four requirements: clearance to the restricted archive, documented hands-on history with the item, possession of the specific tool used, and meets the temporal requirement (presence between 01:00 and 04:00).
3. Dario had financial pressure – appears to have motive.
4. Initial assumption pointed to Yusuf because of proximity to the scene earlier, but this has been independently ruled out.
5. Roksana was passed over for a recent promotion – appears to have motive.
6. Four independent requirements: clearance to the restricted archive, documented hands-on history with the item, presence between 01:00 and 04:00, and possession of the specific tool used.
7. However: Dimitri is cleared – but time-clock record places them at the hospital with a family emergency during the entire window.
8. Dimitri clashed publicly with management – appears to have motive.
9. Dario has documented hands-on history with the item and clearance to the restricted archive and possession of the specific tool used – initial suspicion was high.
10. Dimitri has possession of the specific tool used and clearance to the restricted archive – initial suspicion was high.

CASE 02

A signed agreement was taken from the server room of Velocity Labs during the overnight window between 02:15 and 06:00. The operation required specific qualifications, access, and timing. 7 suspects are under investigation: Cedric (CFO), Akhil (legal counsel), Simeon (intern), Phaedra (senior engineer), Amelia (facilities coordinator), Kiran (security officer), Indira (records clerk). Several have strong-looking motives.

Q Who took the signed agreement?

1. However: Phaedra is cleared – but two independent witnesses confirm a video call with them throughout the window.
2. However: Akhil is cleared – but their admin credentials was revoked the day before – confirmed in the security audit.
3. Cedric their video call ended at 23:25 according to the system.
4. Simeon was passed over for a recent promotion – appears to have motive.
5. Akhil clashed publicly with management – appears to have motive.
6. The trace at the scene (a hand-machined tool stocked in only one closet) ties directly to inventory or systems uniquely accessible to Cedric.
7. Kiran has only possession of the specific tool used of the four requirements.
8. Akhil has after-hours building access and elevated system privileges – initial suspicion was high.
9. Phaedra clashed publicly with management – appears to have motive.
10. Amelia lacks after-hours building access – security audit confirms.
11. Cedric has all four requirements: elevated system privileges, after-hours building access, possession of the specific tool used, and meets the temporal requirement (presence between 02:15 and 06:00).

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CASE 03

The tip jar contents were taken from the staff break room of Aldermarsh Bistro during the overnight window between 01:00 and 04:30. The operation required specific qualifications, access, and timing. 7 suspects are under investigation: Ramona (manager), Xiomara (sommelier), Kasimir (pastry chef), Florian (head chef), Hadley (sous chef), Gunnar (line cook), Darya (bartender). Several have strong-looking motives.

Q Who took the tip jar contents?

1. Kasimir's witness server shows them off-site the entire window.
2. However: Hadley is cleared – but they were on a documented overnight flight, verified by airline records.
3. Hadley has elevated system privileges and administrator credentials – initial suspicion was high.
4. Gunnar's time-clock record shows them off-site the entire window.
5. The theft involved an encryption signature tied to the internal training network.
6. The trace at the scene (an encryption signature tied to the internal training network) ties directly to inventory or systems uniquely accessible to Xiomara.
7. However: Florian is cleared – but two independent witnesses confirm a video call with them throughout the window.
8. Florian was passed over for a recent promotion – appears to have motive.
9. Darya was passed over for a recent promotion – appears to have motive.
- 10 But: however the unsecured side stairwell doesn't require a badge to re-enter.
- 11 Xiomara claims to have exited the building at 23:10 – the official badge log confirms this.
- 12 Florian has familiarity with the security routing and elevated system privileges – initial suspicion . was high.

CASE 04

A signed manuscript was taken from the curator office of Quartermaine Archive during the overnight window between 01:00 and 04:45. The operation required specific qualifications, access, and timing. 8 suspects are under investigation: Nizar (volunteer), Ravi (visiting scholar), Cosima (research assistant), Vidal (cataloger), Cassia (custodian), Sora (rare-books curator), Dario (reference librarian), Selene (head librarian). Several have strong-looking motives.

Q Who took the signed manuscript?

1. The trace at the scene (an encryption signature tied to the internal training network) ties directly to inventory or systems uniquely accessible to Vidal.
2. But: however the parking-lot camera shows their vehicle remained in the lot until well after 01:00.
3. Ravi has clearance to the restricted archive and familiarity with the security routing and administrator credentials – initial suspicion was high.
4. Nizar's witness patron shows them off-site the entire window.
5. Selene has only familiarity with the security routing of the four requirements.
6. Dario filed a grievance two weeks ago – appears to have motive.
7. The theft involved an encryption signature tied to the internal training network.
8. Initial assumption pointed to Sora because of being seen near the building, but this has been independently ruled out.
9. Dario has clearance to the restricted archive and administrator credentials and familiarity with the security routing – initial suspicion was high.
- 10 Cosima has familiarity with the security routing and administrator credentials – initial suspicion . was high.
- 11 However: Dario is cleared – but witness patron places them at the hospital with a family emergency . during the entire window.

Deduction Mysteries

CASE 05

The sealed wills were taken from the administrator office of Northgate Estate Archive during the overnight window between 02:45 and 05:00. The operation required specific qualifications, access, and timing. 7 suspects are under investigation: Isolde (clerk), Enzo (conservation specialist), Fariha (records administrator), Nadia (genealogist), Sora (administrator), Stellan (head archivist), Wilder (security officer). Several have strong-looking motives.

Q Who took the sealed wills?

1. Nadia has knowledge of the seal serial pattern and a verified relationship with the donor – initial suspicion was high.
2. Fariha filed a grievance two weeks ago – appears to have motive.
3. Nadia clashed publicly with management – appears to have motive.
4. Four independent requirements: clearance to the restricted archive, a verified relationship with the donor, presence between 02:45 and 05:00, and knowledge of the seal serial pattern.
5. Fariha has clearance to the restricted archive and a verified relationship with the donor and knowledge of the seal serial pattern – initial suspicion was high.
6. The trace at the scene (a network certificate signed by senior staff) ties directly to inventory or systems uniquely accessible to Sora.
7. Sora has all four requirements: clearance to the restricted archive, a verified relationship with the donor, knowledge of the seal serial pattern, and meets the temporal requirement (presence between 02:45 and 05:00).
8. But: however the seal serial registry shows their vehicle remained in the lot until well after 02:45.
9. The theft involved a network certificate signed by senior staff.
- 10 However: Nadia is cleared – but they were on a documented overnight flight, verified by airline records.

CASE 06

A research notebook was swapped from the sequencing room of Aldermarsh Laboratory during the overnight window between 02:30 and 06:30. The operation required specific qualifications, access, and timing. 7 suspects are under investigation: Bayan (principal investigator), Eira (graduate student), Cedric (operations manager), Eitan (safety officer), Florian (equipment manager), Juno (postdoctoral researcher), Isolde (clinical coordinator). Several have strong-looking motives.

Q Who swapped the research notebook?

1. Cedric has after-hours building access and advanced restoration training – initial suspicion was high.
2. The trace at the scene (an encryption signature tied to the internal training network) ties directly to inventory or systems uniquely accessible to Juno.
3. Cedric was passed over for a recent promotion – appears to have motive.
4. Eitan lacks advanced restoration training – confirmed by personnel records.
5. But: however the unsecured side stairwell doesn't require a badge to re-enter.
6. However: Bayan is cleared – but their biohazard clearance was revoked the day before – confirmed in the security audit.
7. Bayan had financial pressure – appears to have motive.
8. Eira was passed over for a recent promotion – appears to have motive.
9. Four independent requirements: advanced restoration training, after-hours building access, presence between 02:30 and 06:30, and authorization to handle the item.
- 10 The sample tampering involved an encryption signature tied to the internal training network.
- 11 Eira has authorization to handle the item and advanced restoration training – initial suspicion was high.

Answer Key – Deduction Mysteries

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

Case 01 A) Polina

- ☑ Four requirements (clearance to the restricted archive, documented hands-on history with the item, presence between 01:00 and 04:00, possession of the specific tool used) plus a unique technical trace narrow the case.
 - ☑ Dimitri appears guilty (has multiple requirements, has motive) but is cleared by an independent verification.
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Case 02 undefined) Cedric

- ☑ Four requirements (elevated system privileges, after-hours building access, presence between 02:15 and 06:00, possession of the specific tool used) plus a unique technical trace narrow the case.
 - ☑ Simeon appears guilty (has multiple requirements, has motive) but is cleared by an independent verification.
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Case 03 D) Xiomara

- ☑ 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.
 - ☑ Florian appears guilty (has multiple requirements, has motive) but is cleared by an independent verification.
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Case 04 undefined) Vidal

- ☑ Four requirements (clearance to the restricted archive, administrator credentials, presence between 01:00 and 04:45, familiarity with the security routing) plus a unique technical trace narrow the case.
 - ☑ Cosima appears guilty (has multiple requirements, has motive) but is cleared by an independent verification.
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Case 05 E) Sora

- ☑ Four requirements (clearance to the restricted archive, a verified relationship with the donor, presence between 02:45 and 05:00, knowledge of the seal serial pattern) plus a unique technical trace narrow the case.
 - ☑ Nadia appears guilty (has multiple requirements, has motive) but is cleared by an independent verification.
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Case 06 C) Juno

- ☑ Four requirements (advanced restoration training, after-hours building access, presence between 02:30 and 06:30, authorization to handle the item) plus a unique technical trace narrow the case.
- ☑ Bayan appears guilty (has multiple requirements, has motive) but is cleared by an independent verification.