

## Deduction Mysteries

### CASE 01

A game-day playbook was taken from the press box of Aldermarsh Arena during the overnight window between 00:45 and 03:15. The operation required specific qualifications, access, and timing. 8 suspects are under investigation: Cassia (head coach), Ishaan (referee), Bayan (athletic trainer), Mateo (star player), Kiran (facilities manager), Adrian (rookie player), Fariha (equipment manager), Galina (assistant coach). Several have strong-looking motives.

#### Q Who took the game-day playbook?

1. However: Galina is cleared – but two independent witnesses confirm a video call with them throughout the window.
2. Ishaan clashed publicly with management – appears to have motive.
3. Fariha has all four requirements: a master key issued only to senior staff, administrator credentials, authorization to handle the item, and meets the temporal requirement (presence between 00:45 and 03:15).
4. Adrian lacks administrator credentials – security audit confirms.
5. Galina has authorization to handle the item and a master key issued only to senior staff and administrator credentials – initial suspicion was high.
6. However: Ishaan is cleared – but they were on a documented overnight flight, verified by airline records.
7. Mateo's equipment sign-out shows them off-site the entire window.
8. The trace at the scene (a hand-machined tool stocked in only one closet) ties directly to inventory or systems uniquely accessible to Fariha.
9. Kiran clashed publicly with management – appears to have motive.
- 10 Four independent requirements: a master key issued only to senior staff, administrator credentials, . presence between 00:45 and 03:15, and authorization to handle the item.

### CASE 02

A grading book was taken from the sports equipment room of Aldermarsh High during the overnight window between 02:45 and 05:00. The operation required specific qualifications, access, and timing. 7 suspects are under investigation: Zinnia (librarian), Quincy (principal), Bayan (secretary), Ishaan (substitute teacher), Penelope (coach), Mateo (school counselor), Kasper (janitor). Several have strong-looking motives.

#### Q Who took the grading book?

1. Ishaan had financial pressure – appears to have motive.
2. The theft involved a network certificate signed by senior staff.
3. Ishaan has documented hands-on history with the item and knowledge of the seal serial pattern and specialized engineering certification – initial suspicion was high.
4. Mateo's printer log shows them off-site the entire window.
5. Four independent requirements: specialized engineering certification, documented hands-on history with the item, presence between 02:45 and 05:00, and knowledge of the seal serial pattern.
6. The trace at the scene (a network certificate signed by senior staff) ties directly to inventory or systems uniquely accessible to Quincy.
7. Zinnia has documented hands-on history with the item and specialized engineering certification – initial suspicion was high.
8. Kasper lacks specialized engineering certification – confirmed by personnel records.
9. However: Zinnia is cleared – but their staff key was revoked the day before – confirmed in the security audit.
- 10 However: Penelope is cleared – but keycard log places them at the hospital with a family emergency . during the entire window.

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### CASE 03

A restricted-area code was taken from the pharmacy of Northgate Memorial during the overnight window between 01:15 and 05:00. The operation required specific qualifications, access, and timing. 8 suspects are under investigation: Oren (janitor), Aurora (administrator), Bjorn (technician), Yvonne (security officer), Adrian (attending physician), Aaliyah (social worker), Zinnia (medical resident), Xanthe (head nurse). Several have strong-looking motives.

#### Q Who took the restricted-area code?

1. Zinnia has only documented hands-on history with the item of the four requirements.
2. Adrian filed a grievance two weeks ago – appears to have motive.
3. The theft involved a seal cut with a serial pattern from a specific supply.
4. Bjorn has documented hands-on history with the item and familiarity with the security routing and clearance to the restricted archive – initial suspicion was high.
5. Yvonne was officially signed out at 22:15 via the front-desk register.
6. Yvonne has all four requirements: clearance to the restricted archive, documented hands-on history with the item, familiarity with the security routing, and meets the temporal requirement (presence between 01:15 and 05:00).
7. Oren has only documented hands-on history with the item of the four requirements.
8. Bjorn had financial pressure – appears to have motive.
9. However: Adrian is cleared – but pharmacy CCTV places them at the hospital with a family emergency during the entire window.
- 10 Aaliyah had financial pressure – appears to have motive.
- 11 Initial assumption pointed to Xanthe because of proximity to the scene earlier, but this has been independently ruled out.
- 12 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 Yvonne.

### CASE 04

A client contract data was extracted from the network closet of Solstice Labs during the overnight window between 00:30 and 04:30. The operation required specific qualifications, access, and timing. 7 suspects are under investigation: Iolanthe (support lead), Xiomara (senior engineer), Aurora (DevOps lead), Beatrix (CTO), Kalinda (data scientist), Cassia (product manager), Ramona (security analyst). Several have strong-looking motives.

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

1. Cassia had financial pressure – appears to have motive.
2. Initial assumption pointed to Xiomara because of proximity to the scene earlier, but this has been independently ruled out.
3. Four independent requirements: advanced restoration training, after-hours building access, presence between 00:30 and 04:30, and possession of the specific tool used.
4. Beatrix filed a grievance two weeks ago – appears to have motive.
5. Aurora has after-hours building access and possession of the specific tool used – initial suspicion was high.
6. Aurora clashed publicly with management – appears to have motive.
7. Kalinda has only possession of the specific tool used of the four requirements.
8. However: Aurora is cleared – but two independent witnesses confirm a video call with them throughout the window.
9. Iolanthe has all four requirements: advanced restoration training, after-hours building access, possession of the specific tool used, and meets the temporal requirement (presence between 00:30 and 04:30).
- 10 The trace at the scene (a foam replica skillfully painted with restoration-grade spray paint) ties directly to inventory or systems uniquely accessible to Iolanthe.

## Deduction Mysteries

### CASE 05

A reservation book was taken from the pastry station of Northgate Grill during the overnight window between 01:00 and 05:45. The operation required specific qualifications, access, and timing. 7 suspects are under investigation: Anastasia (server), Omari (host), Alejandro (manager), Magnus (bartender), Mikael (head chef), Joaquin (sommelier), Noor (pastry chef). Several have strong-looking motives.

#### Q Who took the reservation book?

1. Noor has clean-room or vault clearance and familiarity with the security routing – initial suspicion was high.
2. Noor filed a grievance two weeks ago – appears to have motive.
3. Alejandro's front-of-house camera shows them off-site the entire window.
4. However: Omari is cleared – but two independent witnesses confirm a video call with them throughout the window.
5. Anastasia has a master key issued only to senior staff and familiarity with the security routing – initial suspicion was high.
6. However: Noor is cleared – but they were on a documented overnight flight, verified by airline records.
7. Anastasia was passed over for a recent promotion – appears to have motive.
8. Four independent requirements: a master key issued only to senior staff, clean-room or vault clearance, presence between 01:00 and 05:45, and familiarity with the security routing.
9. Omari was passed over for a recent promotion – appears to have motive.
- 10 Mikael has only familiarity with the security routing of the four requirements.
- 11 The trace at the scene (a foam replica skillfully painted with restoration-grade spray paint) ties directly to inventory or systems uniquely accessible to Magnus.

### CASE 06

A referee's notebook was taken from the equipment room of Brightline Fitness during the overnight window between 02:15 and 06:15. The operation required specific qualifications, access, and timing. 8 suspects are under investigation: Vidal (athletic trainer), Arjun (facilities manager), Leander (rookie player), Hiroshi (team captain), Quentin (team statistician), Ezra (star player), Aleksandr (head coach), Kiran (assistant coach). Several have strong-looking motives.

#### Q Who took the referee's notebook?

1. Four independent requirements: advanced restoration training, after-hours building access, presence between 02:15 and 06:15, and familiarity with the security routing.
2. Initial assumption pointed to Ezra because of public friction with management, but this has been independently ruled out.
3. The theft involved a network certificate signed by senior staff.
4. Hiroshi filed a grievance two weeks ago – appears to have motive.
5. The trace at the scene (a network certificate signed by senior staff) ties directly to inventory or systems uniquely accessible to Arjun.
6. Leander has after-hours building access and familiarity with the security routing – initial suspicion was high.
7. Leander had financial pressure – appears to have motive.
8. However: Hiroshi is cleared – but they were on a documented overnight flight, verified by airline records.
9. However: Kiran is cleared – but they were on a documented overnight flight, verified by airline records.
- 10 Hiroshi has after-hours building access and familiarity with the security routing and advanced restoration training – initial suspicion was high.

## Answer Key – Deduction Mysteries

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

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### Case 01 undefined) Fariha

- ☒ Four requirements (a master key issued only to senior staff, administrator credentials, presence between 00:45 and 03:15, authorization to handle the item) plus a unique technical trace narrow the case.
  - ☒ Kiran appears guilty (has multiple requirements, has motive) but is cleared by an independent verification.
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### Case 02 D) Quincy

- ☒ Four requirements (specialized engineering certification, documented hands-on history with the item, presence between 02:45 and 05:00, knowledge of the seal serial pattern) plus a unique technical trace narrow the case.
  - ☒ Ishaan appears guilty (has multiple requirements, has motive) but is cleared by an independent verification.
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### Case 03 F) Yvonne

- ☒ Four requirements (clearance to the restricted archive, documented hands-on history with the item, presence between 01:15 and 05:00, familiarity with the security routing) plus a unique technical trace narrow the case.
  - ☒ Bjorn appears guilty (has multiple requirements, has motive) but is cleared by an independent verification.
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### Case 04 A) Iolanthe

- ☒ Four requirements (advanced restoration training, after-hours building access, presence between 00:30 and 04:30, possession of the specific tool used) plus a unique technical trace narrow the case.
  - ☒ Beatrix appears guilty (has multiple requirements, has motive) but is cleared by an independent verification.
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### Case 05 A) Magnus

- ☒ Four requirements (a master key issued only to senior staff, clean-room or vault clearance, presence between 01:00 and 05:45, familiarity with the security routing) plus a unique technical trace narrow the case.
  - ☒ Anastasia appears guilty (has multiple requirements, has motive) but is cleared by an independent verification.
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### Case 06 undefined) Arjun

- ☒ Four requirements (advanced restoration training, after-hours building access, presence between 02:15 and 06:15, familiarity with the security routing) plus a unique technical trace narrow the case.
- ☒ Leander appears guilty (has multiple requirements, has motive) but is cleared by an independent verification.