

## Deduction Mysteries

### CASE 01

A curator notebook was taken from the special collections room of Northgate Library during the overnight window between 00:30 and 03:45. The operation required specific qualifications, access, and timing. 8 suspects are under investigation: Enzo (rare-books curator), Alejandro (custodian), Sora (volunteer), Pavel (intern), Aurora (head librarian), Cassia (archivist), Darya (research assistant), Ginevra (visiting scholar). Several have strong-looking motives.

#### Q Who took the curator notebook?

1. But: however the unsecured service entrance doesn't require a badge to re-enter.
2. The theft involved a seal cut with a serial pattern from a specific supply.
3. Alejandro has only a verified relationship with the donor of the four requirements.
4. Aurora's badge swipe shows them off-site the entire window.
5. Enzo had financial pressure – appears to have motive.
6. Pavel was passed over for a recent promotion – 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 Darya.
8. However: Pavel is cleared – but badge swipe places them at the hospital with a family emergency during the entire window.
9. However: Enzo is cleared – but two independent witnesses confirm a video call with them throughout the window.
- 10 Darya has all four requirements: specialized engineering certification, a verified relationship with the donor, familiarity with the security routing, and meets the temporal requirement (presence between 00:30 and 03:45).
- 11 However: Sora is cleared – but their vault key was revoked the day before – confirmed in the security audit.

### CASE 02

A Vermeer sketch was taken from the private collection room of Brookfield Art Institute during the overnight window between 02:30 and 06:00. The operation required specific qualifications, access, and timing. 7 suspects are under investigation: Ula (night security), Oren (tour guide), Rokhsana (security guard), Sami (janitor), Enzo (archivist), Esme (exhibition designer), Vidal (gift shop manager). Several have strong-looking motives.

#### Q Who took the Vermeer sketch?

1. Enzo has all four requirements: specialized engineering certification, clean-room or vault clearance, authorization to handle the item, and meets the temporal requirement (presence between 02:30 and 06:00).
2. However: Ula is cleared – but two independent witnesses confirm a video call with them throughout the window.
3. Four independent requirements: specialized engineering certification, clean-room or vault clearance, presence between 02:30 and 06:00, and authorization to handle the item.
4. Oren was passed over for a recent promotion – appears to have motive.
5. But: however DHCP log records show they re-authenticated from an internal network at 2:40.
6. Sami has specialized engineering certification and clean-room or vault clearance – initial suspicion was high.
7. However: Oren is cleared – but two independent witnesses confirm a video call with them throughout the window.
8. Sami clashed publicly with management – appears to have motive.
9. Initial assumption pointed to Oren because of proximity to the scene earlier, but this has been independently ruled out.
- 10 However: Sami is cleared – but their security badge was revoked the day before – confirmed in the security audit.

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### CASE 03

The quarterly financials were extracted from the server farm of Quartermaine Cyber during the overnight window between 01:00 and 05:30. The operation required specific qualifications, access, and timing. 8 suspects are under investigation: Cassia (product manager), Eleni (CTO), Meriel (contractor), Suri (security analyst), Thora (senior engineer), Klaus (site-reliability engineer), Leila (intern), Amelia (support lead). Several have strong-looking motives.

#### Q Who extracted the quarterly financials?

1. Meriel lacks after-hours building access – security audit confirms.
2. Eleni has all four requirements: a master key issued only to senior staff, after-hours building access, possession of the specific tool used, and meets the temporal requirement (presence between 01:00 and 05:30).
3. Klaus has only possession of the specific tool used of the four requirements.
4. Amelia filed a grievance two weeks ago – appears to have motive.
5. Eleni their video call ended at 23:10 according to the system.
6. However: Amelia is cleared – but their VPN credentials was revoked the day before – confirmed in the security audit.
7. Thora has only possession of the specific tool used of the four requirements.
8. The data theft involved a foam replica skillfully painted with restoration-grade spray paint.
9. Cassia filed a grievance two weeks ago – appears to have motive.
- 10 Suri was passed over for a recent promotion – appears to have motive.
- 11 Amelia has a master key issued only to senior staff and after-hours building access and possession of the specific tool used – initial suspicion was high.
- 12 The trace at the scene (a foam replica skillfully painted with restoration-grade spray paint) ties directly to inventory or systems uniquely accessible to Eleni.

### CASE 04

A sound-system controller was taken from the catwalk of The Aldermarsh Theatre during the overnight window between 00:45 and 03:00. The operation required specific qualifications, access, and timing. 8 suspects are under investigation: Hadley (lead actor), Frida (costume designer), Fenella (prop master), Arjun (stage manager), Ramona (stagehand), Anand (understudy), Selene (lighting tech), Kalinda (box-office manager). Several have strong-looking motives.

#### Q Who took the sound-system controller?

1. Fenella lacks elevated system privileges – confirmed by personnel records.
2. Arjun their video call ended at 23:45 according to the system.
3. Frida clashed publicly with management – appears to have motive.
4. Anand's rehearsal sign-in shows them off-site the entire window.
5. Initial assumption pointed to Anand because of being seen near the building, but this has been independently ruled out.
6. Ramona has elevated system privileges and possession of the specific tool used – initial suspicion was high.
7. However: Frida is cleared – but they were on a documented overnight flight, verified by airline records.
8. However: Kalinda is cleared – but props inventory log places them at the hospital with a family emergency during the entire window.
9. Frida has elevated system privileges and a verified relationship with the donor – initial suspicion was high.
- 10 Arjun has all four requirements: elevated system privileges, a verified relationship with the donor, possession of the specific tool used, and meets the temporal requirement (presence between 00:45 and 03:00).

## Deduction Mysteries

### CASE 05

A prototype compound was swapped from the centrifuge bay of Nordic Bio during the overnight window between 02:15 and 05:30. The operation required specific qualifications, access, and timing. 8 suspects are under investigation: Mahdi (postdoctoral researcher), Kiran (visiting scientist), Leander (equipment manager), Ilya (clinical coordinator), Cassia (graduate student), Tarek (operations manager), Kasimir (lab technician), Hattie (safety officer). Several have strong-looking motives.

#### Q Who swapped the prototype compound?

1. Initial assumption pointed to Hattie because of public friction with management, but this has been independently ruled out.
2. Mahdi was passed over for a recent promotion – appears to have motive.
3. But: however the unsecured pedestrian door doesn't require a badge to re-enter.
4. Four independent requirements: a master key issued only to senior staff, administrator credentials, presence between 02:15 and 05:30, and familiarity with the security routing.
5. Tarek has all four requirements: a master key issued only to senior staff, administrator credentials, familiarity with the security routing, and meets the temporal requirement (presence between 02:15 and 05:30).
6. Tarek claims to have exited the building at 22:20 – the official badge log confirms this.
7. Hattie lacks administrator credentials – security audit confirms.
8. The sample tampering involved an encryption signature tied to the internal training network.
9. However: Leander is cleared – but equipment timestamp places them at the hospital with a family emergency during the entire window.
- 10 The trace at the scene (an encryption signature tied to the internal training network) ties directly to inventory or systems uniquely accessible to Tarek.

### CASE 06

A jade figurine was taken from the storage basement of Pemberton Wing during the overnight window between 01:00 and 05:00. The operation required specific qualifications, access, and timing. 7 suspects are under investigation: Indira (night security), Quincy (tour guide), Yusuf (janitor), Amari (gift shop manager), Bayan (docent), Marisol (security guard), Sami (archivist). Several have strong-looking motives.

#### Q Who took the jade figurine?

1. Amari has a master key issued only to senior staff and familiarity with the security routing and clean-room or vault clearance – initial suspicion was high.
2. Indira has all four requirements: a master key issued only to senior staff, clean-room or vault clearance, familiarity with the security routing, and meets the temporal requirement (presence between 01:00 and 05:00).
3. However: Bayan is cleared – but door sensor places them at the hospital with a family emergency during the entire window.
4. The theft involved a network certificate signed by senior staff.
5. Yusuf lacks a master key issued only to senior staff – confirmed by personnel records.
6. However: Marisol is cleared – but elevator log places them at the hospital with a family emergency during the entire window.
7. Marisol filed a grievance two weeks ago – 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 05:00, and familiarity with the security routing.
9. Sami's badge swipe log shows them off-site the entire window.
- 10 Bayan clashed publicly with management – appears to have motive.

## Answer Key – Deduction Mysteries

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

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### Case 01 C) Darya

- ☒ Four requirements (specialized engineering certification, a verified relationship with the donor, presence between 00:30 and 03:45, familiarity with the security routing) plus a unique technical trace narrow the case.
  - ☒ Pavel appears guilty (has multiple requirements, has motive) but is cleared by an independent verification.
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### Case 02 C) Enzo

- ☒ Four requirements (specialized engineering certification, clean-room or vault clearance, presence between 02:30 and 06:00, authorization to handle the item) plus a unique technical trace narrow the case.
  - ☒ Ula appears guilty (has multiple requirements, has motive) but is cleared by an independent verification.
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### Case 03 C) Eleni

- ☒ Four requirements (a master key issued only to senior staff, after-hours building access, presence between 01:00 and 05:30, possession of the specific tool used) plus a unique technical trace narrow the case.
  - ☒ Amelia appears guilty (has multiple requirements, has motive) but is cleared by an independent verification.
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### Case 04 undefined) Arjun

- ☒ Four requirements (elevated system privileges, a verified relationship with the donor, presence between 00:45 and 03:00, possession of the specific tool used) plus a unique technical trace narrow the case.
  - ☒ Ramona appears guilty (has multiple requirements, has motive) but is cleared by an independent verification.
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### Case 05 A) Tarek

- ☒ Four requirements (a master key issued only to senior staff, administrator credentials, presence between 02:15 and 05:30, familiarity with the security routing) plus a unique technical trace narrow the case.
  - ☒ Cassia appears guilty (has multiple requirements, has motive) but is cleared by an independent verification.
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### Case 06 F) Indira

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