

## Deduction Mysteries

### CASE 01

An encrypted hard drive was taken from the CEO office of Meridian Capital between 00:45 and 02:00. The operation required specific qualifications and access. 7 suspects: Kenji (legal counsel), Kiran (security officer), Cassia (CFO), Ishaan (executive assistant), Zinnia (intern), Hattie (IT administrator), Amelia (facilities coordinator).

#### Q Who took the encrypted hard drive?

1. Cassia stated they left the building at 23:30, but the badge access record shows their employee badge active at 00:45.
2. Amelia was seen near the data center earlier that evening, but they had left the building by 21:45 and never returned.
3. Kiran had the qualifications but was hospitalized during the window – third-party verified.
4. Amelia lacks the required professional certification – confirmed by personnel records.
5. Ishaan had the qualifications but was hospitalized during the window – third-party verified.
6. Kenji lacks the required professional certification – confirmed by personnel records.
7. Hattie's VPN session log shows continuous presence in a separate building.
8. A trace at the scene – a unique encryption signature traceable to internal-only training – matches inventory accessible only to Cassia.
9. The corporate theft required a unique encryption signature traceable to internal-only training.
- 10 Three independent requirements: professional certification, document-room code access, and presence at the CEO office during the 00:45-02:00 window.
- 11 Zinnia was at a documented training during the window – verified by printer log.
- 12 Cassia has all three required qualifications.

### CASE 02

A SSL certificate was extracted from the testing lab of Quartermaine Cyber between 02:00 and 04:15. The operation required specific qualifications and access. 6 suspects: Zoltan (DevOps lead), Mira (senior engineer), Darya (site-reliability engineer), Odell (contractor), Eitan (data scientist), Iolanthe (security analyst).

#### Q Who extracted the SSL certificate?

1. Iolanthe stated they left the building at 22:45, but the network authentication record shows their admin token active at 02:00.
2. Iolanthe has all three required qualifications.
3. Mira had the qualifications but was on a flight during the window – third-party verified.
4. Darya's badge swipe shows continuous presence in a separate building.
5. A trace at the scene – a digital certificate issued only to senior staff – matches inventory accessible only to Iolanthe.
6. The data theft required a digital certificate issued only to senior staff.
7. Three independent requirements: professional expertise, admin token access, and presence at the testing lab during the 02:00-04:15 window.
8. Zoltan was at a documented hospital appointment during the window – verified by badge swipe.
9. Odell lacks the required professional expertise – confirmed by personnel records.
- 10 Eitan's admin token was revoked two weeks prior; archived access list confirms.
- 11 Mira was seen near the SOC operations center earlier that evening, but they had left the building by 21:05 and never returned.

## Deduction Mysteries

### CASE 03

A rare first edition was taken from the microfilm area of Northgate Library between 01:15 and 03:15. The operation required specific qualifications and access. 6 suspects: Sami (intern), Frida (head librarian), Mauro (reference librarian), Mateo (archivist), Ishaan (research assistant), Ines (custodian).

#### Q Who took the rare first edition?

1. The theft required a specific paint formulation only stocked in the restoration lab.
2. Three independent requirements: professional certification, vault key access, and presence at the microfilm area during the 01:15-03:15 window.
3. Ines was at a documented training during the window – verified by witness patron.
4. Ishaan was at a documented conference during the window – verified by security camera.
5. Sami was seen near the microfilm area earlier that evening, but they had left the building by 21:50 and never returned.
6. Mauro's door sensor shows continuous presence in a separate building.
7. A trace at the scene – a specific paint formulation only stocked in the restoration lab – matches inventory accessible only to Frida.
8. Frida has all three required qualifications.
9. Mateo's security camera shows continuous presence in a separate building.
- 10 Frida stated they left the building at 23:15, but the badge access record shows their archive badge active at 01:15.

11 Sami was at a documented hospital appointment during the window – verified by security camera.
A) Frida      B) Sami      C) Ishaan      D) Mateo      E) Ines      F) Mauro

### CASE 04

A test specimen was swapped from the cold-storage freezer of Solstice Research between 03:15 and 05:00. The operation required specific qualifications and access. 7 suspects: Yusuf (equipment manager), Roksana (operations manager), Hiroshi (clinical coordinator), Kerensa (lab technician), Polina (visiting scientist), Aleksandr (safety officer), Tomas (undergraduate volunteer).

#### Q Who swapped the test specimen?

1. Roksana was at a documented training during the window – verified by freezer access log.
2. Hiroshi was at a documented training during the window – verified by clean-room entry log.
3. Three independent requirements: professional certification, lab badge access, and presence at the cold-storage freezer during the 03:15-05:00 window.
4. Tomas stated they left the building at 23:35, but the elevator log shows their freezer key active at 03:15.
5. Kerensa's equipment timestamp shows continuous presence in a separate building.
6. Aleksandr's clean-room entry log shows continuous presence in a separate building.
7. Polina's witness sighting shows continuous presence in a separate building.
8. Yusuf had the qualifications but family was visiting during the window – third-party verified.
9. Kerensa was seen near the cold-storage freezer earlier that evening, but they had left the building by 21:30 and never returned.
- 10 A trace at the scene – a stamped seal serial number from a controlled supply closet – matches inventory accessible only to Tomas.
- 11 Tomas has all three required qualifications.

## Deduction Mysteries

### CASE 05

The locker contents were taken from the training pool of Aldermarsh Arena between 00:00 and 02:00. The operation required specific qualifications and access. 6 suspects: Nikolai (facilities manager), Bao (team captain), Elara (equipment manager), Noor (rookie player), Cyrus (star player), Jules (assistant coach).

#### Q Who took the locker contents?

1. A trace at the scene – a digital certificate issued only to senior staff – matches inventory accessible only to Elara.
2. Three independent requirements: professional expertise, team key access, and presence at the training pool during the 00:00-02:00 window.
3. Jules was at a documented conference during the window – verified by badge log.
4. Elara stated they left the building at 23:10, but the DHCP server log shows their facility badge active at 00:00.
5. Noor's time-clock record shows continuous presence in a separate building.
6. Bao was at a documented conference during the window – verified by locker-room sensor.
7. Nikolai was at a documented training during the window – verified by equipment sign-out.
8. Cyrus lacks the required professional expertise – confirmed by personnel records.
9. The theft required a digital certificate issued only to senior staff.
- 10 Elara has all three required qualifications.
- 11 Bao was seen near the trophy display case earlier that evening, but they had left the building

by 20:15 and never returned.	A) Elara	B) Noor	C) Cyrus	D) Bao	E) Nikolai	F) Jules
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### CASE 06

An original land deed was taken from the research area of Northgate Estate Archive between 02:00 and 04:15. The operation required specific qualifications and access. 6 suspects: Kai (head archivist), Saoirse (clerk), Maeve (security officer), Pavel (conservation specialist), Ramona (records administrator), Simeon (volunteer).

#### Q Who took the original land deed?

1. The theft required a stamped seal serial number from a controlled supply closet.
2. Maeve has all three required qualifications.
3. Maeve stated they left the building at 23:20, but the elevator log shows their vault key active at 02:00.
4. Saoirse lacks the required professional expertise – confirmed by personnel records.
5. A trace at the scene – a stamped seal serial number from a controlled supply closet – matches inventory accessible only to Maeve.
6. Kai lacks the required professional expertise – confirmed by personnel records.
7. Ramona was at a documented conference during the window – verified by reading-room sign-in.
8. Pavel's badge swipe shows continuous presence in a separate building.
9. Three independent requirements: professional expertise, research-room pass access, and presence at the research area during the 02:00-04:15 window.
- 10 Saoirse was seen near the staff break room earlier that evening, but they had left the building by 21:05 and never returned.
- 11 Simeon had the qualifications but was on a flight during the window – third-party verified.

## Answer Key – Deduction Mysteries

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

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### Case 01 E) Cassia

- ☑ Three requirements (professional certification, document-room code, presence at the CEO office during the 00:45-02:00 window) plus a technical trace narrow this case.
  - ☑ Kenji eliminated by alibi or missing qualification.
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### Case 02 E) Iolanthe

- ☑ Three requirements (professional expertise, admin token, presence at the testing lab during the 02:00-04:15 window) plus a technical trace narrow this case.
  - ☑ Zoltan eliminated by alibi or missing qualification.
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### Case 03 A) Frida

- ☑ Three requirements (professional certification, vault key, presence at the microfilm area during the 01:15-03:15 window) plus a technical trace narrow this case.
  - ☑ Sami eliminated by alibi or missing qualification.
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### Case 04 C) Tomas

- ☑ Three requirements (professional certification, lab badge, presence at the cold-storage freezer during the 03:15-05:00 window) plus a technical trace narrow this case.
  - ☑ Yusuf eliminated by alibi or missing qualification.
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### Case 05 A) Elara

- ☑ Three requirements (professional expertise, team key, presence at the training pool during the 00:00-02:00 window) plus a technical trace narrow this case.
  - ☑ Nikolai eliminated by alibi or missing qualification.
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### Case 06 C) Maeve

- ☑ Three requirements (professional expertise, research-room pass, presence at the research area during the 02:00-04:15 window) plus a technical trace narrow this case.
- ☑ Kai eliminated by alibi or missing qualification.