

## Deduction Mysteries

### CASE 01

A signed binary release was extracted from the executive suite of Quartermaine Cyber between 01:00 and 03:00. The operation required specific qualifications and access. 6 suspects: Ishaan (contractor), Lana (data scientist), Lucia (security analyst), Talia (support lead), Ronan (CTO), Meriel (product manager).

#### Q Who extracted the signed binary release?

1. Ronan had the qualifications but family was visiting during the window – third-party verified.
2. Lucia lacks the required professional training – confirmed by personnel records.
3. Lana's admin token was revoked two weeks prior; archived access list confirms.
4. Talia has all three required qualifications.
5. Ishaan lacks the required professional training – confirmed by personnel records.
6. Ronan was seen near the code review room earlier that evening, but they had left the building by 21:10 and never returned.
7. Talia stated they left the building at 23:05, but the elevator log shows their VPN credentials active at 01:00.
8. Three independent requirements: professional training, admin token access, and presence at the executive suite during the 01:00-03:00 window.
9. Meriel had the qualifications but family was visiting during the window – third-party verified.
- 10 A trace at the scene – a unique encryption signature traceable to internal-only training – matches inventory accessible only to Talia.

11 The data theft required a unique encryption signature traceable to internal-only training.
A) Meriel      B) Ishaan      C) Ronan      D) Talia      E) Lucia      F) Lana

### CASE 02

A staff schedule was taken from the manager's office of The Briar Room between 01:30 and 03:00. The operation required specific qualifications and access. 6 suspects: Galina (manager), Xiomara (dishwasher), Odell (server), Olive (bartender), Kalinda (pastry chef), Gisela (head chef).

#### Q Who took the staff schedule?

1. Xiomara stated they left the building at 23:05, but the parking-lot camera shows their cellar key active at 01:30.
2. Odell was at a documented hospital appointment during the window – verified by reservation system.
3. Three independent requirements: professional certification, manager key access, and presence at the manager's office during the 01:30-03:00 window.
4. Olive lacks the required professional certification – confirmed by personnel records.
5. Kalinda was at a documented conference during the window – verified by front-of-house camera.
6. Galina's reservation system shows continuous presence in a separate building.
7. A trace at the scene – a unique encryption signature traceable to internal-only training – matches inventory accessible only to Xiomara.
8. The theft required a unique encryption signature traceable to internal-only training.
9. Gisela was at a documented hospital appointment during the window – verified by POS log.
- 10 Xiomara has all three required qualifications.
- 11 Odell was seen near the staff break room earlier that evening, but they had left the building by 21:00 and never returned.

## Deduction Mysteries

### CASE 03

A specialized welding kit was taken from the tool crib of Northgate Workshop between 01:45 and 03:30. The operation required specific qualifications and access. 6 suspects: Theo (welder), Tarek (parts clerk), Anand (master mechanic), Bjorn (painter), Ishaan (shop manager), Bayan (machinist).

#### Q Who took the specialized welding kit?

1. Anand stated they left the building at 22:55, but the DHCP server log shows their manager key active at 01:45.
2. Bjorn had the qualifications but was on a flight during the window – third-party verified.
3. Tarek's manager key was revoked two weeks prior; archived access list confirms.
4. A trace at the scene – a unique encryption signature traceable to internal-only training – matches inventory accessible only to Anand.
5. Bayan had the qualifications but family was visiting during the window – third-party verified.
6. Theo lacks the required professional certification – confirmed by personnel records.
7. Theo was seen near the main shop floor earlier that evening, but they had left the building by 20:25 and never returned.
8. The theft required a unique encryption signature traceable to internal-only training.
9. Anand has all three required qualifications.
- 10 Ishaan's tool-checkout log shows continuous presence in a separate building.
- 11 Three independent requirements: professional certification, manager key access, and presence

. at the tool crib during the 01:45-03:30 window.

A) Theo

B) Bayan

C) Bjorn

D) Ishaan

E) Tarek

F) Anand

### CASE 04

A silver chalice was taken from the second-floor gallery of Helix Modern Art between 00:30 and 02:30. The operation required specific qualifications and access. 7 suspects: Esme (archivist), Odell (gift shop manager), Gemma (curator), Hasan (tour guide), Wren (docent), Aurora (exhibition designer), Tomas (security guard).

#### Q Who took the silver chalice?

1. Gemma stated they left the building at 23:00, but the elevator log shows their security badge active at 00:30.
2. Esme was at a documented conference during the window – verified by security camera.
3. The theft required a custom-machined tool stocked only in equipment closet B.
4. Aurora's door sensor shows continuous presence in a separate building.
5. Three independent requirements: professional certification, keycard access, and presence at the second-floor gallery during the 00:30-02:30 window.
6. Hasan's motion sensor shows continuous presence in a separate building.
7. Odell's door sensor shows continuous presence in a separate building.
8. Tomas was at a documented training during the window – verified by badge swipe log.
9. Gemma has all three required qualifications.
- 10 Wren had the qualifications but family was visiting during the window – third-party verified.
- 11 Aurora was seen near the archive room earlier that evening, but they had left the building by 21:05 and never returned.
- 12 A trace at the scene – a custom-machined tool stocked only in equipment closet B – matches inventory accessible only to Gemma.

## Deduction Mysteries

### CASE 05

A Vermeer sketch was taken from the storage basement of Pemberton Wing between 00:30 and 02:45. The operation required specific qualifications and access. 7 suspects: Isolde (exhibition designer), Yara (docent), Noor (archivist), Rosalind (tour guide), Theo (night security), Tess (janitor), Gunnar (art restorer).

#### Q Who took the Vermeer sketch?

1. Theo was seen near the second-floor gallery earlier that evening, but they had left the building by 20:15 and never returned.
2. Tess has all three required qualifications.
3. Yara lacks the required professional expertise – confirmed by personnel records.
4. Rosalind's motion sensor shows continuous presence in a separate building.
5. The theft required a specific paint formulation only stocked in the restoration lab.
6. A trace at the scene – a specific paint formulation only stocked in the restoration lab – matches inventory accessible only to Tess.
7. Theo's motion sensor shows continuous presence in a separate building.
8. Three independent requirements: professional expertise, master key access, and presence at the storage basement during the 00:30–02:45 window.
9. Noor's master key was revoked two weeks prior; archived access list confirms.
- 10 Gunnar's witness testimony shows continuous presence in a separate building.
- 11 Isolde was at a documented conference during the window – verified by witness testimony.
- 12 Tess stated they left the building at 23:15, but the DHCP server log shows their elevator . access active at 00:30.

### CASE 06

A staff schedule was taken from the wine cellar of Saint-Clair Café between 01:15 and 03:45. The operation required specific qualifications and access. 7 suspects: Bayan (host), Hiroshi (sommelier), Xanthe (server), Lior (manager), Akhil (bartender), Talia (line cook), Priya (pastry chef).

#### Q Who took the staff schedule?

1. Hiroshi had the qualifications but family was visiting during the window – third-party verified.
2. A trace at the scene – a specific paint formulation only stocked in the restoration lab – matches inventory accessible only to Lior.
3. Three independent requirements: professional certification, manager key access, and presence at the wine cellar during the 01:15–03:45 window.
4. The theft required a specific paint formulation only stocked in the restoration lab.
5. Akhil was at a documented training during the window – verified by witness server.
6. Lior stated they left the building at 23:35, but the door sensor history shows their cellar key active at 01:15.
7. Lior has all three required qualifications.
8. Xanthe lacks the required professional certification – confirmed by personnel records.
9. Priya's witness server shows continuous presence in a separate building.
- 10 Talia's manager key was revoked two weeks prior; archived access list confirms.
- 11 Akhil was seen near the front register earlier that evening, but they had left the building by . 21:40 and never returned.

## Answer Key – Deduction Mysteries

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

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### Case 01 D) Talia

- ☒ Three requirements (professional training, admin token, presence at the executive suite during the 01:00-03:00 window) plus a technical trace narrow this case.
  - ☒ Ishaan eliminated by alibi or missing qualification.
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### Case 02 E) Xiomara

- ☒ Three requirements (professional certification, manager key, presence at the manager's office during the 01:30-03:00 window) plus a technical trace narrow this case.
  - ☒ Galina eliminated by alibi or missing qualification.
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### Case 03 F) Anand

- ☒ Three requirements (professional certification, manager key, presence at the tool crib during the 01:45-03:30 window) plus a technical trace narrow this case.
  - ☒ Theo eliminated by alibi or missing qualification.
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### Case 04 F) Gemma

- ☒ Three requirements (professional certification, keycard, presence at the second-floor gallery during the 00:30-02:30 window) plus a technical trace narrow this case.
  - ☒ Esme eliminated by alibi or missing qualification.
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### Case 05 E) Tess

- ☒ Three requirements (professional expertise, master key, presence at the storage basement during the 00:30-02:45 window) plus a technical trace narrow this case.
  - ☒ Isolde eliminated by alibi or missing qualification.
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### Case 06 C) Lior

- ☒ Three requirements (professional certification, manager key, presence at the wine cellar during the 01:15-03:45 window) plus a technical trace narrow this case.
- ☒ Bayan eliminated by alibi or missing qualification.