

## Deduction Mysteries

### CASE 01

A staff schedule was taken from the dining floor of Saint-Clair Café between 03:30 and 05:15. The operation required specific qualifications and access. 7 suspects: Ramona (line cook), Nadia (sous chef), Aleksandr (host), Stellan (dishwasher), Bao (bartender), Sami (sommelier), Faye (server).

#### Q Who took the staff schedule?

1. Sami was at a documented conference during the window – verified by POS log.
2. Stellan's front-of-house camera shows continuous presence in a separate building.
3. Bao's time-clock record shows continuous presence in a separate building.
4. Aleksandr lacks the required professional certification – confirmed by personnel records.
5. Nadia stated they left the building at 23:20, but the badge access record shows their cellar key active at 03:30.
6. Faye's master key was revoked two weeks prior; archived access list confirms.
7. Ramona had the qualifications but was on a flight during the window – third-party verified.
8. Nadia has all three required qualifications.
9. The theft required a digital certificate issued only to senior staff.
- 10 Stellan was seen near the dining floor earlier that evening, but they had left the building by . 21:20 and never returned.
- 11 A trace at the scene – a digital certificate issued only to senior staff – matches inventory . accessible only to Nadia.
- 12 Three independent requirements: professional certification, master key access, and presence at . the dining floor during the 03:30-05:15 window.

### CASE 02

A restricted-area code was taken from the pharmacy of Helix Health Center between 03:30 and 05:00. The operation required specific qualifications and access. 7 suspects: Florian (head nurse), Priya (administrator), Tatum (pharmacist), Adrian (janitor), Caelan (technician), Zoltan (medical resident), Iolanthe (social worker).

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

1. Caelan had the qualifications but was hospitalized during the window – third-party verified.
2. Adrian had the qualifications but was hospitalized during the window – third-party verified.
3. Florian was at a documented training during the window – verified by witness staff.
4. Tatum had the qualifications but was on a flight during the window – third-party verified.
5. A trace at the scene – a digital certificate issued only to senior staff – matches inventory accessible only to Zoltan.
6. Iolanthe's pharmacy CCTV shows continuous presence in a separate building.
7. Caelan was seen near the staff lounge earlier that evening, but they had left the building by 21:55 and never returned.
8. Zoltan stated they left the building at 22:55, but the door sensor history shows their administrator code active at 03:30.
9. Priya had the qualifications but family was visiting during the window – third-party verified.
- 10 The theft required a digital certificate issued only to senior staff.
- 11 Zoltan has all three required qualifications.
- 12 Three independent requirements: professional certification, administrator code access, and . presence at the pharmacy during the 03:30-05:00 window.

## Deduction Mysteries

### CASE 03

A client contract data was extracted from the DevOps room of Velocity Networks between 02:30 and 04:00. The operation required specific qualifications and access. 7 suspects: Theo (security analyst), Mikael (support lead), Eira (senior engineer), Katarina (DevOps lead), Ramona (data scientist), Iolanthe (product manager), Sami (CTO).

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

1. Iolanthe was at a documented conference during the window – verified by MFA token log.
2. Iolanthe was seen near the SOC operations center earlier that evening, but they had left the building by 21:50 and never returned.
3. Three independent requirements: professional training, admin token access, and presence at the DevOps room during the 02:30-04:00 window.
4. The data theft required a digital certificate issued only to senior staff.
5. Ramona was at a documented conference during the window – verified by MFA token log.
6. Theo was at a documented hospital appointment during the window – verified by SSH authentication log.
7. Katarina was at a documented conference during the window – verified by witness colleague.
8. Mikael had the qualifications but was on a flight during the window – third-party verified.
9. Sami was at a documented hospital appointment during the window – verified by MFA token log.
- 10 A trace at the scene – a digital certificate issued only to senior staff – matches inventory . accessible only to Eira.
- 11 Eira has all three required qualifications.
- 12 Eira stated they left the building at 23:40, but the parking-lot camera shows their admin ~~token active at 02:30.~~

### CASE 04

A rare coin set was taken from the curator office of Helix Modern Art between 00:30 and 02:15. The operation required specific qualifications and access. 7 suspects: Polina (curator), Mateo (archivist), Zoltan (night security), Aiko (docent), Ines (tour guide), Faye (security guard), Tomas (art restorer).

#### Q Who took the rare coin set?

1. Faye was seen near the private collection room earlier that evening, but they had left the building by 21:05 and never returned.
2. Zoltan has all three required qualifications.
3. Tomas lacks the required professional expertise – confirmed by personnel records.
4. The theft required a unique encryption signature traceable to internal-only training.
5. Ines's door sensor shows continuous presence in a separate building.
6. Polina lacks the required professional expertise – confirmed by personnel records.
7. A trace at the scene – a unique encryption signature traceable to internal-only training – matches inventory accessible only to Zoltan.
8. Aiko had the qualifications but was on a flight during the window – third-party verified.
9. Mateo's vault combination was revoked two weeks prior; archived access list confirms.
- 10 Faye had the qualifications but family was visiting during the window – third-party verified.
- 11 Zoltan stated they left the building at 23:25, but the badge access record shows their master . key active at 00:30.
- 12 Three independent requirements: professional expertise, vault combination access, and presence . at the curator office during the 00:30-02:15 window.

## Deduction Mysteries

### CASE 05

An annotated copy was taken from the microfilm area of Helix Reading Room between 02:00 and 04:15. The operation required specific qualifications and access. 6 suspects: Thora (intern), Vera (reference librarian), Mauro (archivist), Emiko (research assistant), Tomas (head librarian), Kalinda (volunteer).

#### Q Who took the annotated copy?

1. Vera had the qualifications but was hospitalized during the window – third-party verified.
2. Mauro stated they left the building at 23:05, but the network authentication record shows their archive badge active at 02:00.
3. The theft required a specific paint formulation only stocked in the restoration lab.
4. Emiko was seen near the reference desk earlier that evening, but they had left the building by 20:25 and never returned.
5. Tomas's reading-room pass was revoked two weeks prior; archived access list confirms.
6. Emiko was at a documented conference during the window – verified by security camera.
7. Three independent requirements: professional certification, reading-room pass access, and presence at the microfilm area during the 02:00-04:15 window.
8. Thora was at a documented training during the window – verified by witness patron.
9. Kalinda's security camera shows continuous presence in a separate building.
- 10 Mauro has all three required qualifications.
- 11 A trace at the scene – a specific paint formulation only stocked in the restoration lab –

. matches inventory accessible only to Mauro.					
A) Vera	B) Mauro	C) Tomas	D) Kalinda	E) Thora	F) Emiko

### CASE 06

A sealed reagent was swapped from the autoclave room of Aldermarsh Laboratory between 03:00 and 05:15. The operation required specific qualifications and access. 7 suspects: Phaedra (undergraduate volunteer), Mira (equipment manager), Eira (postdoctoral researcher), Mateo (operations manager), Lucia (safety officer), Suri (principal investigator), Faye (graduate student).

#### Q Who swapped the sealed reagent?

1. The sample tampering required a stamped seal serial number from a controlled supply closet.
2. Mateo lacks the required professional expertise – confirmed by personnel records.
3. Mira's lab badge was revoked two weeks prior; archived access list confirms.
4. Suri lacks the required professional expertise – confirmed by personnel records.
5. Eira was at a documented training during the window – verified by freezer access log.
6. Lucia lacks the required professional expertise – confirmed by personnel records.
7. A trace at the scene – a stamped seal serial number from a controlled supply closet – matches inventory accessible only to Phaedra.
8. Phaedra stated they left the building at 23:45, but the network authentication record shows their lab badge active at 03:00.
9. Three independent requirements: professional expertise, lab badge access, and presence at the autoclave room during the 03:00-05:15 window.
- 10 Mateo was seen near the prep bench earlier that evening, but they had left the building by 21:35 and never returned.
- 11 Phaedra has all three required qualifications.

## Answer Key – Deduction Mysteries

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

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### Case 01 E) Nadia

- ☒ Three requirements (professional certification, master key, presence at the dining floor during the 03:30-05:15 window) plus a technical trace narrow this case.
  - ☒ Ramona eliminated by alibi or missing qualification.
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### Case 02 undefined) Zoltan

- ☒ Three requirements (professional certification, administrator code, presence at the pharmacy during the 03:30-05:00 window) plus a technical trace narrow this case.
  - ☒ Florian eliminated by alibi or missing qualification.
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### Case 03 B) Eira

- ☒ Three requirements (professional training, admin token, presence at the DevOps room during the 02:30-04:00 window) plus a technical trace narrow this case.
  - ☒ Theo eliminated by alibi or missing qualification.
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### Case 04 undefined) Zoltan

- ☒ Three requirements (professional expertise, vault combination, presence at the curator office during the 00:30-02:15 window) plus a technical trace narrow this case.
  - ☒ Polina eliminated by alibi or missing qualification.
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### Case 05 B) Mauro

- ☒ Three requirements (professional certification, reading-room pass, presence at the microfilm area during the 02:00-04:15 window) plus a technical trace narrow this case.
  - ☒ Thora eliminated by alibi or missing qualification.
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### Case 06 F) Phaedra

- ☒ Three requirements (professional expertise, lab badge, presence at the autoclave room during the 03:00-05:15 window) plus a technical trace narrow this case.
  - ☒ Mira eliminated by alibi or missing qualification.
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