

## Deduction Mysteries

### CASE 01

The box-office receipts were taken from the dressing room of Helix Repertory between 00:45 and 02:00. The operation required specific qualifications and access. 6 suspects: Saoirse (director), Etienne (stagehand), Adrian (stage manager), Beatrix (lighting tech), Ginevra (lead actor), Noor (understudy).

#### Q Who took the box-office receipts?

1. A trace at the scene – a specific paint formulation only stocked in the restoration lab – matches inventory accessible only to Adrian.
2. The theft required a specific paint formulation only stocked in the restoration lab.
3. Three independent requirements: professional expertise, backstage pass access, and presence at the dressing room during the 00:45-02:00 window.
4. Etienne lacks the required professional expertise – confirmed by personnel records.
5. Ginevra was at a documented training during the window – verified by stage door camera.
6. Adrian stated they left the building at 23:50, but the door sensor history shows their prop-room code active at 00:45.
7. Adrian has all three required qualifications.
8. Noor's props inventory log shows continuous presence in a separate building.
9. Beatrix was seen near the box office earlier that evening, but they had left the building by 20:15 and never returned.
- 10 Beatrix had the qualifications but was on a flight during the window – third-party verified.

11 Saoirse had the qualifications but was on a flight during the window – third-party verified.

A) Etienne	B) Beatrix	C) Adrian	D) Ginevra	E) Noor	F) Saoirse
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### CASE 02

The adoption papers were taken from the registration desk of Saint-Clair Historical Society between 02:30 and 04:45. The operation required specific qualifications and access. 6 suspects: Frida (researcher), Galina (security officer), Ulla (intern), Hadley (conservation specialist), Elara (volunteer), Iolanthe (records administrator).

#### Q Who took the adoption papers?

1. Elara was seen near the registration desk earlier that evening, but they had left the building by 21:50 and never returned.
2. Hadley's archive badge was revoked two weeks prior; archived access list confirms.
3. Iolanthe has all three required qualifications.
4. Three independent requirements: professional certification, archive badge access, and presence at the registration desk during the 02:30-04:45 window.
5. The theft required a custom-machined tool stocked only in equipment closet B.
6. Frida's archive log shows continuous presence in a separate building.
7. Elara was at a documented conference during the window – verified by reading-room sign-in.
8. A trace at the scene – a custom-machined tool stocked only in equipment closet B – matches inventory accessible only to Iolanthe.
9. Ulla's archive badge was revoked two weeks prior; archived access list confirms.
- 10 Iolanthe stated they left the building at 22:05, but the network authentication record shows their archive badge active at 02:30.
- 11 Galina had the qualifications but was hospitalized during the window – third-party verified.

## Deduction Mysteries

### CASE 03

A wine collection inventory was taken from the manager's office of Saint-Clair Café between 03:45 and 05:15. The operation required specific qualifications and access. 6 suspects: Aurora (pastry chef), Joren (server), Gisela (sommelier), Bjorn (head chef), Mikael (manager), Lior (dishwasher).

#### Q Who took the wine collection inventory?

1. Joren stated they left the building at 23:20, but the parking-lot camera shows their master key active at 03:45.
2. Gisela lacks the required professional certification – confirmed by personnel records.
3. Lior was at a documented conference during the window – verified by POS log.
4. Joren has all three required qualifications.
5. Aurora's cellar key was revoked two weeks prior; archived access list confirms.
6. The theft required a specific paint formulation only stocked in the restoration lab.
7. A trace at the scene – a specific paint formulation only stocked in the restoration lab – matches inventory accessible only to Joren.
8. Mikael was seen near the dining floor earlier that evening, but they had left the building by 20:45 and never returned.
9. Three independent requirements: professional certification, cellar key access, and presence at the manager's office during the 03:45-05:15 window.
- 10 Bjorn was at a documented conference during the window – verified by reservation system.

11 Mikael was at a documented hospital appointment during the window – verified by POS log.
A) Aurora      B) Gisela      C) Joren      D) Bjorn      E) Lior      F) Mikael

### CASE 04

The quarterly financials were extracted from the war room of Brightline Software between 01:45 and 03:00. The operation required specific qualifications and access. 7 suspects: Ilya (DevOps lead), Hasan (product manager), Penelope (support lead), Tess (CTO), Leila (senior engineer), Kenji (security analyst), Thora (data scientist).

#### Q Who extracted the quarterly financials?

1. Three independent requirements: professional expertise, admin token access, and presence at the war room during the 01:45-03:00 window.
2. Thora's admin token was revoked two weeks prior; archived access list confirms.
3. Penelope stated they left the building at 22:25, but the parking-lot camera shows their MFA device active at 01:45.
4. Tess was seen near the DevOps room earlier that evening, but they had left the building by 21:25 and never returned.
5. The data theft required a custom-machined tool stocked only in equipment closet B.
6. Ilya had the qualifications but was hospitalized during the window – third-party verified.
7. Penelope has all three required qualifications.
8. Hasan lacks the required professional expertise – confirmed by personnel records.
9. Tess's witness colleague shows continuous presence in a separate building.
- 10 A trace at the scene – a custom-machined tool stocked only in equipment closet B – matches inventory accessible only to Penelope.
- 11 Kenji was at a documented conference during the window – verified by MFA token log.
- 12 Leila's admin token was revoked two weeks prior; archived access list confirms.

## Deduction Mysteries

### CASE 05

A signature dish recipe was taken from the pastry station of Quartermaine's between 00:30 and 02:30. The operation required specific qualifications and access. 7 suspects: Mira (bartender), Tarek (sommelier), Quentin (server), Bram (host), Aaliyah (pastry chef), Mei (sous chef), Amelia (dishwasher).

#### Q Who took the signature dish recipe?

1. Tarek has all three required qualifications.
2. Bram lacks the required professional certification – confirmed by personnel records.
3. Tarek stated they left the building at 23:50, but the elevator log shows their cellar key active at 00:30.
4. Three independent requirements: professional certification, register code access, and presence at the pastry station during the 00:30-02:30 window.
5. Quentin's register code was revoked two weeks prior; archived access list confirms.
6. Mei's register code was revoked two weeks prior; archived access list confirms.
7. Amelia lacks the required professional certification – confirmed by personnel records.
8. Mira had the qualifications but was hospitalized during the window – third-party verified.
9. Quentin was seen near the wine cellar earlier that evening, but they had left the building by 20:00 and never returned.
- 10 A trace at the scene – a specific paint formulation only stocked in the restoration lab – matches inventory accessible only to Tarek.
- 11 Aaliyah had the qualifications but was on a flight during the window – third-party verified.
- 12 The theft required a specific paint formulation only stocked in the restoration lab.

### CASE 06

An SSL certificate was extracted from the executive suite of Velocity Networks between 00:30 and 02:00. The operation required specific qualifications and access. 6 suspects: Zara (contractor), Frida (product manager), Ines (CTO), Simeon (site-reliability engineer), Thora (senior engineer), Bjorn (security analyst).

#### Q Who extracted the SSL certificate?

1. A trace at the scene – a digital certificate issued only to senior staff – matches inventory accessible only to Zara.
2. Zara has all three required qualifications.
3. Frida lacks the required professional expertise – confirmed by personnel records.
4. Bjorn's SSH key was revoked two weeks prior; archived access list confirms.
5. Thora had the qualifications but family was visiting during the window – third-party verified.
6. The data theft required a digital certificate issued only to senior staff.
7. Three independent requirements: professional expertise, SSH key access, and presence at the executive suite during the 00:30-02:00 window.
8. Ines was at a documented hospital appointment during the window – verified by CCTV camera.
9. Simeon's badge swipe shows continuous presence in a separate building.
- 10 Frida was seen near the executive suite earlier that evening, but they had left the building by 20:50 and never returned.
- 11 Zara stated they left the building at 23:20, but the network authentication record shows their SSH key active at 00:30.

## Answer Key – Deduction Mysteries

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

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### Case 01 C) Adrian

- ☒ Three requirements (professional expertise, backstage pass, presence at the dressing room during the 00:45-02:00 window) plus a technical trace narrow this case.
  - ☒ Saoirse eliminated by alibi or missing qualification.
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### Case 02 B) Iolanthe

- ☒ Three requirements (professional certification, archive badge, presence at the registration desk during the 02:30-04:45 window) plus a technical trace narrow this case.
  - ☒ Frida eliminated by alibi or missing qualification.
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### Case 03 C) Joren

- ☒ Three requirements (professional certification, cellar key, presence at the manager's office during the 03:45-05:15 window) plus a technical trace narrow this case.
  - ☒ Aurora eliminated by alibi or missing qualification.
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### Case 04 F) Penelope

- ☒ Three requirements (professional expertise, admin token, presence at the war room during the 01:45-03:00 window) plus a technical trace narrow this case.
  - ☒ Ilya eliminated by alibi or missing qualification.
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### Case 05 E) Tarek

- ☒ Three requirements (professional certification, register code, presence at the pastry station during the 00:30-02:30 window) plus a technical trace narrow this case.
  - ☒ Mira eliminated by alibi or missing qualification.
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### Case 06 E) Zara

- ☒ Three requirements (professional expertise, SSH key, presence at the executive suite during the 00:30-02:00 window) plus a technical trace narrow this case.
- ☒ Frida eliminated by alibi or missing qualification.