

## Deduction Mysteries

### CASE 01

A signed binary release was extracted from the testing lab of Solstice Labs between 02:30 and 04:00. The operation required specific qualifications and access. 6 suspects: Hadley (senior engineer), Penelope (contractor), Aaliyah (product manager), Thora (CTO), Isolde (DevOps lead), Vidal (site-reliability engineer).

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

1. Penelope was at a documented hospital appointment during the window – verified by CCTV camera.
2. Aaliyah stated they left the building at 22:55, but the badge access record shows their badge active at 02:30.
3. Isolde's MFA token log shows continuous presence in a separate building.
4. Aaliyah has all three required qualifications.
5. Vidal's MFA token log shows continuous presence in a separate building.
6. The data theft required a unique encryption signature traceable to internal-only training.
7. Three independent requirements: professional certification, VPN credentials access, and presence at the testing lab during the 02:30-04:00 window.
8. Thora's MFA token log shows continuous presence in a separate building.
9. Thora was seen near the data archive earlier that evening, but they had left the building by 21:20 and never returned.
- 10 Hadley's MFA token log shows continuous presence in a separate building.
- 11 A trace at the scene – a unique encryption signature traceable to internal-only training –

. matches inventory accessible only to Aaliyah.

A) Isolde

B) Vidal

C) Penelope

D) Hadley

E) Aaliyah

F) Thora

### CASE 02

An Etruscan pendant was taken from the restoration lab of Whitmore Museum between 02:00 and 04:15. The operation required specific qualifications and access. 7 suspects: Vera (janitor), Klaus (night security), Selene (curator), Aiko (gift shop manager), Magnus (exhibition designer), Dimah (tour guide), Rosalind (archivist).

#### Q Who took the Etruscan pendant?

1. Three independent requirements: professional training, security badge access, and presence at the restoration lab during the 02:00-04:15 window.
2. Aiko lacks the required professional training – confirmed by personnel records.
3. Vera's security camera shows continuous presence in a separate building.
4. Klaus's security badge was revoked two weeks prior; archived access list confirms.
5. Aiko was seen near the prep workshop earlier that evening, but they had left the building by 20:15 and never returned.
6. Magnus had the qualifications but family was visiting during the window – third-party verified.
7. Dimah's elevator log shows continuous presence in a separate building.
8. Rosalind has all three required qualifications.
9. Selene lacks the required professional training – confirmed by personnel records.
- 10 Rosalind stated they left the building at 23:10, but the door sensor history shows their vault combination active at 02:00.
- 11 A trace at the scene – a digital certificate issued only to senior staff – matches inventory accessible only to Rosalind.
- 12 The theft required a digital certificate issued only to senior staff.

## Deduction Mysteries

### CASE 03

A medical kit was taken from the locker room of Pemberton Stadium between 01:00 and 03:45. The operation required specific qualifications and access. 6 suspects: Frida (assistant coach), Tess (athletic trainer), Diallo (referee), Sora (team statistician), Nizar (facilities manager), Zoltan (equipment manager).

#### Q Who took the medical kit?

1. Zoltan's facility badge was revoked two weeks prior; archived access list confirms.
2. Tess's facility badge was revoked two weeks prior; archived access list confirms.
3. A trace at the scene – a stamped seal serial number from a controlled supply closet – matches inventory accessible only to Nizar.
4. Sora had the qualifications but was on a flight during the window – third-party verified.
5. Nizar stated they left the building at 22:30, but the network authentication record shows their team key active at 01:00.
6. Frida had the qualifications but was hospitalized during the window – third-party verified.
7. Frida was seen near the press box earlier that evening, but they had left the building by 21:20 and never returned.
8. Diallo lacks the required professional certification – confirmed by personnel records.
9. The theft required a stamped seal serial number from a controlled supply closet.
- 10 Nizar has all three required qualifications.
- 11 Three independent requirements: professional certification, facility badge access, and

. presence at the locker room during the 01:00-03:45 window.

A) Tess

B) Zoltan

C) Diallo

D) Frida

E) Nizar

F) Sora

### CASE 04

The hospital ID badges were taken from the intensive care wing of Northgate Memorial between 03:00 and 05:00. The operation required specific qualifications and access. 6 suspects: Kasimir (technician), Mira (medical resident), Talia (head nurse), Rhys (janitor), Cedric (pharmacist), Alessio (attending physician).

#### Q Who took the hospital ID badges?

1. Cedric's hospital badge was revoked two weeks prior; archived access list confirms.
2. Alessio's hospital badge was revoked two weeks prior; archived access list confirms.
3. The theft required a specific paint formulation only stocked in the restoration lab.
4. Mira has all three required qualifications.
5. Cedric was seen near the medication closet earlier that evening, but they had left the building by 20:10 and never returned.
6. Kasimir lacks the required professional training – confirmed by personnel records.
7. Talia had the qualifications but was on a flight during the window – third-party verified.
8. A trace at the scene – a specific paint formulation only stocked in the restoration lab – matches inventory accessible only to Mira.
9. Rhys had the qualifications but was on a flight during the window – third-party verified.
- 10 Three independent requirements: professional training, hospital badge access, and presence at . the intensive care wing during the 03:00-05:00 window.
- 11 Mira stated they left the building at 22:40, but the network authentication record shows their . restricted-wing access active at 03:00.

## Deduction Mysteries

### CASE 05

An oil painting was taken from the storage basement of Pemberton Wing between 02:00 and 04:00. The operation required specific qualifications and access. 7 suspects: Fenella (tour guide), Hasan (night security), Talia (docent), Amari (gift shop manager), Eitan (art restorer), Nizar (archivist), Tariq (exhibition designer).

#### Q Who took the oil painting?

1. Nizar lacks the required professional expertise – confirmed by personnel records.
2. A trace at the scene – a custom-machined tool stocked only in equipment closet B – matches inventory accessible only to Talia.
3. Fenella's elevator log shows continuous presence in a separate building.
4. Hasan was at a documented conference during the window – verified by witness testimony.
5. Eitan's security badge was revoked two weeks prior; archived access list confirms.
6. Three independent requirements: professional expertise, security badge access, and presence at the storage basement during the 02:00-04:00 window.
7. Talia stated they left the building at 22:35, but the door sensor history shows their master key active at 02:00.
8. Amari was at a documented training during the window – verified by motion sensor.
9. Talia has all three required qualifications.
- 10 The theft required a custom-machined tool stocked only in equipment closet B.
- 11 Tariq had the qualifications but was on a flight during the window – third-party verified.
- 12 Tariq was seen near the prep workshop earlier that evening, but they had left the building by . 21:50 and never returned.

### CASE 06

The patient records were taken from the administrator office of Saint-Clair Hospital between 00:30 and 02:30. The operation required specific qualifications and access. 7 suspects: Idris (security officer), Kiran (technician), Eitan (administrator), Alessio (attending physician), Kerensa (medical resident), Nikolai (volunteer), Mahdi (head nurse).

#### Q Who took the patient records?

1. A trace at the scene – a specific paint formulation only stocked in the restoration lab – matches inventory accessible only to Kerensa.
2. Idris was seen near the staff lounge 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. Kerensa has all three required qualifications.
5. Nikolai's pharmacy CCTV shows continuous presence in a separate building.
6. Eitan's pharmacy CCTV shows continuous presence in a separate building.
7. Three independent requirements: professional expertise, pharmacy key access, and presence at the administrator office during the 00:30-02:30 window.
8. The theft required a specific paint formulation only stocked in the restoration lab.
9. Alessio was at a documented hospital appointment during the window – verified by door sensor.
- 10 Mahdi lacks the required professional expertise – confirmed by personnel records.
- 11 Idris's pharmacy key was revoked two weeks prior; archived access list confirms.
- 12 Kerensa stated they left the building at 22:10, but the badge access record shows their . restricted-wing access active at 00:30.

## Answer Key – Deduction Mysteries

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

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### Case 01 E) Aaliyah

- ☑ Three requirements (professional certification, VPN credentials, presence at the testing lab during the 02:30-04:00 window) plus a technical trace narrow this case.
  - ☑ Hadley eliminated by alibi or missing qualification.
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### Case 02 F) Rosalind

- ☑ Three requirements (professional training, security badge, presence at the restoration lab during the 02:00-04:15 window) plus a technical trace narrow this case.
  - ☑ Vera eliminated by alibi or missing qualification.
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### Case 03 E) Nizar

- ☑ Three requirements (professional certification, facility badge, presence at the locker room during the 01:00-03:45 window) plus a technical trace narrow this case.
  - ☑ Frida eliminated by alibi or missing qualification.
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### Case 04 D) Mira

- ☑ Three requirements (professional training, hospital badge, presence at the intensive care wing during the 03:00-05:00 window) plus a technical trace narrow this case.
  - ☑ Kasimir eliminated by alibi or missing qualification.
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### Case 05 undefined) Talia

- ☑ Three requirements (professional expertise, security badge, presence at the storage basement during the 02:00-04:00 window) plus a technical trace narrow this case.
  - ☑ Fenella eliminated by alibi or missing qualification.
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### Case 06 E) Kerensa

- ☑ Three requirements (professional expertise, pharmacy key, presence at the administrator office during the 00:30-02:30 window) plus a technical trace narrow this case.
- ☑ Idris eliminated by alibi or missing qualification.