

Deduction Mysteries

CASE 01

A prototype compound was swapped from the cleanroom of Aldermarsh Laboratory during the overnight window between 21:15 and 23:30. Investigators have narrowed the field to 6 suspects: Frida (lab technician), Etienne (principal investigator), Kai (undergraduate volunteer), Tariq (visiting scientist), Stellan (safety officer), Aleksandr (operations manager).

Q Who swapped the prototype compound?

1. Tariq has no verifiable account of their whereabouts after 21:15.
2. Aleksandr's sample log places them at a public event with hundreds of attendees from 21:15 to roughly 23:30.
3. Tariq had recent disciplinary action, well-documented in HR records.
4. A discarded note near the scene briefly suggested Etienne's involvement, but it was later traced to an unrelated incident.
5. Lab badge access to the cleanroom is restricted to Tariq, Frida.
6. Stellan's witness sighting places them at a documented training session from 21:15 to roughly 23:30.
7. The sample tampering required encryption key generation. Only Tariq, Etienne, Frida have it among the suspects.
8. Kai's witness sighting places them at a remote conference from 21:15 to roughly 23:30.
9. Tariq's lab badge was activated at 21:15 at the cleanroom.
10. Frida's sample log places them at a hospital visit from 21:15 to roughly 23:30.
11. Etienne's equipment timestamp places them at a hospital visit from 21:15 to roughly 23:30.

CASE 02

A donor list was taken from the restoration room of Northgate Library during the overnight window between 20:30 and 22:00. Investigators have narrowed the field to 5 suspects: Anand (visiting scholar), Mikael (head librarian), Magnus (custodian), Jian (volunteer), Kalisa (rare-books curator).

Q Who took the donor list?

1. Mikael had recent disciplinary action, well-documented in HR records.
2. Magnus's book-checkout record places them at a hospital visit from 20:30 to roughly 22:00.
3. Mikael's reading-room pass was activated at 20:30 at the restoration room.
4. Reading-room pass access to the restoration room is restricted to Anand, Jian, Mikael.
5. Kalisa's badge swipe places them at a public event with hundreds of attendees from 20:30 to roughly 22:00.
6. The theft required complex schematic knowledge. Only Magnus, Jian, Mikael have it among the suspects.
7. Mikael has no verifiable account of their whereabouts after 20:30.
8. Jian's book-checkout record places them at a documented training session from 20:30 to roughly 22:00.
9. Anand's badge swipe places them at a hospital visit from 20:30 to roughly 22:00.

 A) Mikael B) Magnus C) Anand D) Jian E) Kalisa

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CASE 03

A principal's personal file was taken from the locker room of Northgate Academy during the overnight window between 19:15 and 21:00. Investigators have narrowed the field to 6 suspects: Penelope (student council president), Kasimir (librarian), Magnus (janitor), Tatum (coach), Aaliyah (school counselor), Gunnar (teacher).

Q Who took the principal's personal file?

1. Master key access to the locker room is restricted to Penelope, Magnus.
2. Penelope had recent disciplinary action, well-documented in HR records.
3. Kasimir's keycard log places them at an offsite location from 19:15 to roughly 21:00.
4. Tatum's attendance log places them at a hospital visit from 19:15 to roughly 21:00.
5. Penelope's master key was activated at 19:15 at the locker room.
6. Gunnar's door sensor places them at an offsite location from 19:15 to roughly 21:00.
7. Aaliyah's door sensor places them at a documented training session from 19:15 to roughly 21:00.
8. Magnus's attendance log places them at a remote conference from 19:15 to roughly 21:00.
9. The theft required complex schematic knowledge. Only Gunnar, Penelope, Tatum have it among the suspects.
- 10 Penelope has no verifiable account of their whereabouts after 19:15.
- 11 A discarded note near the scene briefly suggested Gunnar's involvement, but it was later traced to an unrelated incident.

A) Magnus	B) Gunnar	C) Kasimir	D) Tatum	E) Penelope	F) Aaliyah
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CASE 04

An equipment manifest was taken from the coach's office of Aldermarsh Arena during the overnight window between 19:30 and 21:45. Investigators have narrowed the field to 5 suspects: Thora (star player), Nikolai (team statistician), Yusuf (equipment manager), Zoltan (rookie player), Alessio (head coach).

Q Who took the equipment manifest?

1. Yusuf's team key was activated at 19:30 at the coach's office.
2. Nikolai's locker-room sensor places them at a remote conference from 19:30 to roughly 21:45.
3. Alessio's time-clock record places them at an offsite location from 19:30 to roughly 21:45.
4. The theft required professional restoration training. Only Yusuf, Alessio, Nikolai have it among the suspects.
5. Team key access to the coach's office is restricted to Yusuf, Thora.
6. Yusuf had an ongoing dispute with management, well-documented in HR records.
7. Thora's badge log places them at a hospital visit from 19:30 to roughly 21:45.
8. Zoltan's locker-room sensor places them at a hospital visit from 19:30 to roughly 21:45.
9. Yusuf has no verifiable account of their whereabouts after 19:30.

A) Nikolai	B) Yusuf	C) Zoltan	D) Alessio	E) Thora
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CASE 05

The master plans were taken from the main shop floor of Helix Restoration during the overnight window between 19:15 and 21:15. Investigators have narrowed the field to 5 suspects: Tatum (shop manager), Quentin (machinist), Cyrus (quality inspector), Mauro (electrician), Yvonne (welder).

Q Who took the master plans?

1. Mauro's parts-room audit places them at an offsite location from 19:15 to roughly 21:15.
2. Tatum had an ongoing dispute with management, well-documented in HR records.
3. Tatum's tool-crib key was activated at 19:15 at the main shop floor.
4. Cyrus's parts-room audit places them at a remote conference from 19:15 to roughly 21:15.
5. The theft required firmware manipulation. Only Tatum, Quentin, Cyrus have it among the suspects.
6. Yvonne's witness coworker places them at a remote conference from 19:15 to roughly 21:15.
7. Quentin's door sensor places them at a documented training session from 19:15 to roughly 21:15.
8. Tatum has no verifiable account of their whereabouts after 19:15.
9. Tool-crib key access to the main shop floor is restricted to Mauro, Tatum, Cyrus.

A) Yvonne	B) Quentin	C) Mauro	D) Tatum	E) Cyrus
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CASE 06

An internal API key was extracted from the server farm of Brightline Software during the overnight window between 21:45 and 23:15. Investigators have narrowed the field to 6 suspects: Polina (security analyst), Priya (CTO), Finnegan (intern), Florian (senior engineer), Anand (contractor), Helena (DevOps lead).

Q Who extracted the internal API key?

1. Anand's SSH authentication log places them at a hospital visit from 21:45 to roughly 23:15.
2. Polina's CCTV camera places them at a remote conference from 21:45 to roughly 23:15.
3. Finnegan's CCTV camera places them at an offsite location from 21:45 to roughly 23:15.
4. Priya's SSH authentication log places them at a documented training session from 21:45 to roughly 23:15.
5. The data theft required professional restoration training. Only Helena, Florian, Polina have it among the suspects.
6. Admin token access to the server farm is restricted to Florian, Helena, Finnegan.
7. Helena has no verifiable account of their whereabouts after 21:45.
8. Helena had passed-over promotion, well-documented in HR records.
9. Florian's witness colleague places them at a public event with hundreds of attendees from 21:45 to roughly 23:15.
- 10 Helena's admin token was activated at 21:45 at the server farm.

A) Polina	B) Helena	C) Priya	D) Finnegan	E) Anand	F) Florian
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Answer Key – Deduction Mysteries

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

Case 01 B) Tariq

- ❑ The sample tampering required encryption key generation, lab badge, and a motivating reason.
 - ❑ Frida has skill and access but a verified alibi places them offsite – cleared.
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Case 02 A) Mikael

- ❑ The theft required complex schematic knowledge, reading-room pass, and a motivating reason.
 - ❑ Anand lacks the required complex schematic knowledge – cleared.
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Case 03 E) Penelope

- ❑ The theft required complex schematic knowledge, master key, and a motivating reason.
 - ❑ Kasimir lacks the required complex schematic knowledge – cleared.
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Case 04 B) Yusuf

- ❑ The theft required professional restoration training, team key, and a motivating reason.
 - ❑ Thora lacks the required professional restoration training – cleared.
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Case 05 D) Tatum

- ❑ The theft required firmware manipulation, tool-crib key, and a motivating reason.
 - ❑ Quentin has the skill but no tool-crib key – cleared.
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Case 06 B) Helena

- ❑ The data theft required professional restoration training, admin token, and a motivating reason.
 - ❑ Polina has the skill but no admin token – cleared.
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