



Part 1: The "Engine" Setup & Case 1 (Martha Jenkins)

Copy/Paste this to Claude:

"I have a React-based Clinical Audit Simulator. I need you to generate a **JSON-structured Data Library** for three distinct cases: **Easy (Jenkins)**, **Medium (Rodriguez)**, and **Audit Master (Henderson)**.

Global Rules for the JSON:

1. **Structure:** Each case must have a `narrative`, `vitals`, `environmentalRisks`, and an `answerBank` containing 10 options for CMS-485 Boxes 11, 15, 18, and 21.
2. **Remediation:** Every incorrect option must have a `remediationText` explaining the specific audit or clinical error.
3. **Validation:** Each case needs a `correctSequence` to ensure the learner selects the 'Priority' action before clinical tasks.

Case 1: Martha Jenkins (Easy)

- **Narrative:** Martha (72) is post-op Total Knee Replacement (TKR). She is stable but needs wound checks and mobility training.
- **Physician Orders:** SN once-weekly for 4 weeks. PT three times a week for 4 weeks.
- **Vitals:** Temp 100.1°F, BP 124/80, HR 72.
- **Goal:** Test basic documentation and 1:1 math accuracy."



Case 1 Answer Bank Logic (Martha Jenkins)

Box	Correct Logic	Trap Logic
Box 11 (Primary)	Z47.1 (Aftercare following joint replacement)	Trap: Use "M25.561" (Knee Pain) — Pain is a symptom, not the aftercare driver.
Box 15 (Functional)	Ambulation, Transferring	Trap: "Feeding/Speech" — Irrelevant to a knee surgery case.

Box 18 (Orders)	Assess surgical site, PT exercises	Trap: "Apply heat to incision" — Heat can increase inflammation post-op.
Box 21 (Frequency)	SN: 1w4 PT: 3w4	Trap: "SN: 4w1" — Swapping frequency and weeks is a common form error.
Priority	Confirm Pain/Meds	Trap: "911 Transfer" — Over-reacting to a stable post-op patient.

🟡 Part 2: Case 2 (The Medium Level - Elena Rodriguez)

Send this as the second prompt to Claude:

"Now generate the JSON for **Case 2: Elena Rodriguez (Medium)**.

- **The Logic:** This case tests for **Surgical Complications and Complex Scheduling**.
- **The Narrative:** Elena is post-op cardiac. She has a 'clicking' sound in her chest and a red, swollen calf.
- **Vitals:** BP 92/54 (Low), HR 112 (Tachycardic), SpO2 89%.
- **Physician Orders:** SN daily for 5 days (5w1), then 2w2, then 1w5. PT is on a 72-hour surgical hold, then 3w2, then 2w2.
- **The Trap:** Can they identify the **DVT/PE risk** and the **Sternal Instability?**"

Box 21 Math Breakdown for Claude:

- **Correct:** **SN: 5w1, 2w2, 1w5 | PT: 3w2, 2w2**
- **Trap 1:** **SN: 7w1** — Misinterpreting "daily for 5 days" as a full week.
- **Trap 2:** Missing the PT hold — Attempting to start PT on Day 1.

🔴 Part 3: Case 3 (The Henderson Level - Audit Master)

Send this as the final prompt to Claude:

"Finally, generate the JSON for **Case 3: George Henderson (Audit Master)**.

- **The Logic:** Multi-system failure with high-friction distractors (**Pickles the Cat**, loaded firearm, **Silent MI**).
- **Vitals:** HR 48 (Ashen), Glucose 342, pulseless L leg.

- **Physician Orders:** Stabilization for 72 hours (3w1), then 2w3, then 1w4. PT on 48-hour hold, then 2w3, then 1w2.
 - **The Trap:** Users must navigate the 'Probe-to-Bone' (Wagner 3) ulcer and prioritize the 911 transfer over the cat and the wound care."
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Final Developer Checklist for You

- **Case 1 (Easy):** One math trap, one coding trap.
- **Case 2 (Medium):** Two math traps, one emergency "911" trigger.
- **Case 3 (Hard):** The full Henderson Gauntlet with "Pickles" and the Firearm.

Case 1: Martha Jenkins (Easy Level Remediation)

Choice Type	Remediation Text
Math Trap (4w1)	"Administrative Error: You swapped Frequency and Duration. Documenting 4w1 suggests four visits in one week followed by three weeks of no care. This is an over-utilization risk for week one."
Coding Trap (Pain)	"Coding Failure: 'Knee Pain' (M25.561) is a symptom. For a post-surgical patient, Medicare requires the Aftercare code (Z47.1) as the primary driver to justify the home health episode."
Orders Trap (Heat)	"Clinical Risk: Applying heat to a fresh surgical incision can increase local inflammation and vasodilation, potentially leading to increased swelling or dehiscence. Focus on assessment and mobility."
Priority Trap (911)	"Operational Error: Martha is a stable post-op patient. Initiating 911 for a low-grade fever (100.1°F) without other distress is an unnecessary utilization of emergency resources."

Case 2: Elena Rodriguez (Medium Level Remediation)

Choice Type	Remediation Text
Math Trap (7w1)	"Audit Red Flag: The physician requested daily oversight for only 5 days. Selecting 7w1 (daily for the full week) results in 2 unapproved visits, which will be flagged as non-reimbursable over-utilization."
Hold Logic Trap	"Scheduling Error: PT is on a mandated 72-hour surgical hold. Attempting to schedule visits before the hold expires is a compliance violation and ignores the surgeon's safety protocols."
Coding Trap (DVT/PE)	"Diagnosis Error: While the patient likely has a DVT, it is a complication. The primary reason for the Home Health admission remains the cardiac surgery aftercare (Z48.812)."
Priority Trap (Warm Pack)	"Safety Violation: Applying a warm pack to a suspected DVT (red/swollen calf) is contraindicated. Heat can cause vasodilation and dislodge the thrombus, leading to a fatal Pulmonary Embolism (PE)."

Case 3: George Henderson (The Audit Master Logic)

Since this is the "Henderson" level, the remediation should be even more direct:

- **The "Pickles" Trap:** "Clinical Focus Failure: You spent time addressing the neighbor's request for cat care while the patient was in active cardiac distress (HR 48). Prioritize life-safety over household logistics."
- **The Firearm Trap:** "Safety Negligence: You attempted to perform a wound assessment before securing the loaded firearm on the nightstand. Always establish a safe perimeter before beginning clinical interventions."
- **The Wagner Grade 3 Trap:** "Audit Failure: Failing to notify the MD of the 'Probe-to-Bone' finding ignores the high probability of osteomyelitis. This finding requires an immediate change in the plan of care and imaging."

Final Developer Requirement for Claude

Ask Claude: "Please ensure the JSON includes a `difficultyScore` field for each case. Easy = 10 points, Medium = 25 points, Audit Master = 50 points. If the user hits a 'Safety Violation' trap, they lose all points for that case."