

WEEKLY GENERATION PROMPT v8.0 — FOR BATCH CONTENT GENERATION

Version: 8.0
Generated: December 29, 2025, 9:55 PM IST
Status: ☒ OFFICIAL WEEKLY GENERATION PROMPT
Purpose: Generate all weekly instructional & support files systematically

COPY-PASTE WEEKLY GENERATION PROMPT

Use this prompt in your AI chat session to generate complete weekly file sets.

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# 🎯 DSA MASTER CURRICULUM v8.0 – WEEKLY BATCH GENERATION REQUEST

## 📌 CURRENT WEEK TARGET

**Generation Request:** Complete Week [X] file set
- **Week Number:** [X] (1-16, or 4.5, 5.5, 5.5, 13)
- **Duration:** [X] days
- **Total Files:** 11-13 files per week

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## 🎯 DELIVERABLES REQUIRED

### **PART 1: INSTRUCTIONAL FILES (5 files per week)**

Generate the following 5 instructional files for Week [X]:

**File 1:** Week_[X]_Day_1_[Topic_Name]_Instructional.md
- 🧠 Section 1: The Why (900-1500 words)
- 📌 Section 2: The What (900-1500 words)
- ⚙️ Section 3: The How (900-1500 words)
- 🧩 Section 4: Visualization (900-1500 words)
- 📊 Section 5: Critical Analysis (600-900 words)
- 🏢 Section 6: Real Systems (500-800 words)
- 🔗 Section 7: Concept Crossovers (400-600 words)
- 📐 Section 8: Mathematical (300-500 words)
- 💡 Section 9: Algorithmic Intuition (500-800 words)
- ? Section 10: Knowledge Check (200-300 words)
- 🎯 Section 11: Retention Hook (900-1500 words)
- 🧩 5 Cognitive Lenses
- ✂️ Practice Problems: 8-10 (with sources)
- 🗣️ Interview Q&A: 6+ pairs
- ⚠️ Common Misconceptions: 3-5
- 📊 Advanced Concepts: 3-5
- 🔗 External Resources: 3-5
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Word Count Target: 5,500-10,500 words

****File 2:**** Week_[X]_Day_2_[Topic_Name]_Instructional.md
[Repeat all requirements above for Day 2 topic]

****File 3:**** Week_[X]_Day_3_[Topic_Name]_Instructional.md
[Repeat all requirements above for Day 3 topic]

****File 4:**** Week_[X]_Day_4_[Topic_Name]_Instructional.md
[Repeat all requirements above for Day 4 topic]

****File 5:**** Week_[X]_Day_5_[Topic_Name]_Instructional.md
[Repeat all requirements above for Day 5 topic]

****PART 2: SUPPORT FILES (6+ files per week)****

Generate the following 6+ support files for Week [X]:

****Support File 1:**** Week_[X]_Guidelines.md

- 🎯 Learning objectives for the week
- 📄 Key concepts overview
- 📖 Learning approach & methodology
- 💡 Tips for mastering the week
- 🔗 How topics connect
- 📊 Practice strategy for the week
- ⌚ Time management guide
- ☑️ Weekly checklist

Target: 1,500-2,000 words

****Support File 2:**** Week_[X]_Summary_Key_Concepts.md

- 📌 Quick reference of all topics
- 🎯 Key concepts in bullet format
- 💡 Core ideas (one-liner each)
- 🔗 Concept relationships
- 📊 Visual concept map (ASCII)
- ⚡ Highlights of each day
- 📖 Learning milestones

Target: 1,000-1,500 words

****Support File 3:**** Week_[X]_Interview_QA_Reference.md

- 🗣️ 50+ interview questions for the week
- 💬 Real questions asked in interviews
- 📢 Detailed answers (2-3 paragraphs each)
- 🔄 Follow-up variations
- 🎯 Difficulty level indicators
- 📊 Company-specific questions
- ☑️ Answer checklist points

Target: 2,000-2,500 words

****Support File 4:** Week_[X]_Problem_Solving_Roadmap.md**

- 🗺️ Learning path for the week
- 📊 Progression from simple → complex
- ✂️ Practice problem recommendations
- 🎯 Problem-solving strategies
- 💡 Common pitfalls to avoid
- ☑️ Milestone achievements
- 🔗 Prerequisites & next week connections

Target: 1,200-1,800 words

****Support File 5:** Week_[X]_Daily_Progress_Checklist.md**

- 📅 Day-by-day checklist
- ☑️ Daily learning objectives
- 📖 Required readings/topics
- ✂️ Practice problems to solve
- 🎤 Interview questions to review
- 💡 Key concepts to master
- ✓ Completion indicators
- ⌚ Weekly achievement tracker

Target: 800-1,200 words

📋 SPECIFICATIONS & REQUIREMENTS**### **Format Requirements:****

- Format: Markdown (.md)
- Encoding: UTF-8
- Line endings: LF (Unix)
- Header style: # ## ### (proper hierarchy)
- Emphasis: ****bold**** and **italic** (not __bold__ or _italic_)
- Lists: Use `·` for unordered, `1.` for ordered

**Emoji Requirements:**

- 🧠 The Why
- 📌 The What
- ⚙️ The How
- 🎨 Visualization
- 📊 Critical Analysis
- 🏗️ Real Systems
- 🔗 Concept Crossovers
- 📐 Mathematical
- 💡 Algorithmic Intuition
- ? Knowledge Check
- 🔄 Retention Hook

**🔗 5 Cognitive Lenses:**

- 🖥️ Computational Lens (RAM, cache, memory, hardware)
- 🧠 Psychological Lens (misconceptions, learning)
- ⚖️ Design Trade-off Lens (time vs space, simple vs complex)
- 🤖 AI/ML Analogy Lens (ML connections)

- 📄 Historical Context Lens (inventor, evolution, adoption)

Quality Standards:

- All 11 sections per instructional file
- All 5 cognitive lenses per topic
- 5,500-10,500 words per instructional file
- 8+ practice problems per topic (with real sources)
- 6+ interview Q&A pairs per topic (with follow-ups)
- 3-5 common misconceptions per topic
- 3-5 advanced concepts per topic
- 3-5 external resources per topic
- 5-10 real system implementations per topic
- Complexity analysis table (Best/Average/Worst)
- Perfect grammar & spelling
- Professional tone throughout
- No code syntax (logic-only explanations)

🎯 DELIVERY REQUIREMENTS

File Delivery Method:

- ☒ **Generate files ONE BY ONE**
- ☒ **Each file as separate markdown (.md)**
- ☒ **Ready for immediate download**

Delivery Order (for Week [X]):

Instructional Files First:

1. Generate + Deliver: Week_[X]_Day_1_[Topic]_Instructional.md
 - [Wait for verification]
 - [Ready for download]
2. Generate + Deliver: Week_[X]_Day_2_[Topic]_Instructional.md
 - [Wait for verification]
 - [Ready for download]
3. Generate + Deliver: Week_[X]_Day_3_[Topic]_Instructional.md
 - [Wait for verification]
 - [Ready for download]
4. Generate + Deliver: Week_[X]_Day_4_[Topic]_Instructional.md
 - [Wait for verification]
 - [Ready for download]
5. Generate + Deliver: Week_[X]_Day_5_[Topic]_Instructional.md
 - [Wait for verification]
 - [Ready for download]

Support Files Second:

6. Generate + Deliver: Week_[X]_Guidelines.md
7. Generate + Deliver: Week_[X]_Summary_Key_Concepts.md
8. Generate + Deliver: Week_[X]_Interview_QA_Reference.md
9. Generate + Deliver: Week_[X]_Problem_Solving_Roadmap.md

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10. Generate + Deliver: Week_[X]_Daily_Progress_Checklist.md

**Total per week: 11 files**

### **File Format for Delivery:**
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[File Complete]

File: Week_[X]Day_Y[Topic_Name]_Instructional.md

Status: ☒ READY FOR DOWNLOAD **Size:** ☒ pages, [Y] words **Sections:** All 11 sections ☒ **Lenses:** All 5 lenses ☒ **Quality:** Verified against standards ☒

[Complete markdown file content here]

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## ☒ VERIFICATION CHECKLIST

For each instructional file, verify:

**Structure (11 sections):**
- [ ] 🧠 The Why (900-1500 words)
- [ ] ✎ The What (900-1500 words)
- [ ] ⚙️ The How (900-1500 words)
- [ ] 🧠 Visualization (900-1500 words, 3+ examples)
- [ ] 📊 Critical Analysis (600-900 words, complexity table)
- [ ] 🏢 Real Systems (500-800 words, 5-10 systems)
- [ ] 🔗 Concept Crossovers (400-600 words)
- [ ] 📐 Mathematical (300-500 words, proof sketch)
- [ ] 💡 Algorithmic Intuition (500-800 words, decision framework)
- [ ] ? Knowledge Check (200-300 words, 3-5 questions)
- [ ] 🪝 Retention Hook (900-1500 words, all 5 lenses)

**🧩 5 Cognitive Lenses**
- [ ] 🖥️ Computational (hardware & memory)
- [ ] 🧠 Psychological (misconceptions & learning)
- [ ] ⚖️ Design Trade-off (time vs space)
- [ ] 🤖 AI/ML Analogy (learning connections)
- [ ] 📖 Historical Context (evolution & adoption)

**Supplementary Outcomes:**
- [ ] ✂️ Practice Problems: 8-10 (with sources)
- [ ] 🎙️ Interview Q&A: 6+ pairs (with follow-ups)
- [ ] ⚠️ Misconceptions: 3-5 (with corrections)
- [ ] 📐 Advanced Concepts: 3-5
- [ ] 🔗 Resources: 3-5 (diverse types)

**Quality Metrics:**
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- [] Word count: 5,500-10,500
- [] Grammar: Perfect
- [] Tone: Professional
- [] Real systems: 5-10+
- [] Complexity table: Present
- [] Emoji headers: All present
- [] Examples: 3+ detailed

📅 WEEK SPECIFICATIONS

Replace [X] with actual week number:

Week	Days	Topics	Special Notes
1	5	RAM, Big-O, Space, Recursion I, Recursion II	Foundations
2	5	Arrays, Strings, Lists, Stacks, Queues	Linear structures
3	5	Sorting, Hashing, Hash Maps, Sets, Design	Specialization
4	5	2-Pointers, Sliding (Fixed), Sliding (Var), D&C, Binary Search	Patterns
4.5	5	Hash Map/Set, Monotonic, Merge, Partition, Kadane/Fast-Slow	Tier 1
5	5	Binary Trees, Traversals, BST, Heaps/TopK, Balanced Trees	Trees
5.5	5	Difference Array, In-Place, Advanced Strings, [2], [3]	Tier 2
6	5	Graph Basics, DFS, BFS, Dijkstra, Toposort	Graph 1
7	5	Advanced Graphs, Backtracking, [4], [5], Integration	Graph 2
8	5	Segment Trees, Trie, Special DS, [6], [7]	Specialized
9	5	KMP, Rabin-Karp, Number Theory/Bit, Modular/Prob, Geometry	String/Math
10	5	Greedy, Backtracking Adv, [8], [9], Integration	Greedy/BT
11	5	DP Fundamentals, 1D DP, 2D DP, Advanced DP, DP Opt	DP
12	5	Merge Intervals Adv, Monotonic Adv, Cyclic, Matrix Adv, Review	Mastery
13	6-7	Fast-Slow Ext, Reverse-2ptr, Matrix Traversal, MatExp, UFAdv, Encoding	Tier 3
14	5	[Topics], [Topics], [Topics], [Topics], Integration	Deep Dive 1
15	5	[Topics], [Topics], [Topics], [Topics], Integration	Deep Dive 2
16	5	Mock Interview 1, Mock 2, Mock 3, Mock 4, Final Review	Mock/Review

🚀 READY TO GENERATE?

****Provide this prompt and I will:****

- ☒ Generate Week [X] Day 1 instructional file (complete)
- ☒ Deliver as downloadable .md file
- ☒ Verify all 11 sections + all 5 lenses
- ☒ Confirm quality standards met
- ☒ Then generate Week [X] Day 2...
- ☒ Continue for all 11-13 weekly files
- ☒ One file at a time, ready to download

📅 WEEKLY GENERATION SCHEDULE

Week [X] Generation Timeline:

- Instructional File 1: 10-15 min
- Instructional File 2: 10-15 min
- Instructional File 3: 10-15 min
- Instructional File 4: 10-15 min
- Instructional File 5: 10-15 min
- Support File 1: 8-12 min
- Support File 2: 8-12 min
- Support File 3: 10-15 min
- Support File 4: 8-10 min
- Support File 5: 6-8 min
- Support File 6: 6-8 min

****Total per week: ~90-130 minutes (1.5-2 hours)****

🎁 WHAT YOU'LL RECEIVE

For Week [X], you'll get:

☒ ****5 Complete Instructional Files****

- All 11 sections each
- All 5 cognitive lenses each
- 5,500-10,500 words each
- All supplementary outcomes
- Professional-grade quality
- Ready to download as .md

☒ ****6+ Complete Support Files****

- Guidelines & overview
- Key concepts reference
- 50+ interview Q&A
- Problem-solving roadmap
- Daily checklist
- File manifest
- Professional quality

☒ ****Total: 11-13 Files per Week****

- 30,000-40,000 words
- 600+ pages
- MIT-level quality
- All downloadable as .md
- One file at a time
- Immediate download access

📖 HOW TO USE THIS PROMPT

****For Week 1:****

Generate all Week 1 instructional and support files. Week number: 1 Days: 5 Topics: RAM Model, Big-O, Space Complexity, Recursion I, Recursion II Total files: 11 (5 instructional + 6 support) Deliver one at a time, as downloadable .md files

****For Week 4.5:****

Generate all Week 4.5 (Tier 1) instructional and support files. Week number: 4.5 Days: 5 Topics: Hash Maps/Sets, Monotonic Stack, Merge Operations, Partition, Kadane's Algorithm Total files: 11 Deliver one at a time, as downloadable .md files

****For Week 13:****

Generate all Week 13 (Tier 3) instructional and support files. Week number: 13 Days: 6-7 Topics: Fast & Slow Pointers Extended, Reverse & Two Pointers, Matrix Traversal, etc. Total files: 13 (7 instructional + 6 support) Deliver one at a time, as downloadable .md files

☒ FINAL CHECKLIST

Before requesting a week, verify:

- [] Week number identified (1-16, or 4.5, 5.5, 13)
- [] Topics identified for that week
- [] Days per week known (5 or 6-7 for Week 13)
- [] Ready to receive 11-13 files
- [] Files will be generated one-by-one
- [] All files as downloadable .md
- [] Quality standards understood
- [] Emoji usage understood
- [] 11-section framework confirmed
- [] 5-lens requirement confirmed

****When ready, copy this prompt, fill in [X] with actual week number, and send to AI.****

****AI will generate all weekly files one by one, each as a complete downloadable .md file.****

Prompt Version: 8.0

Status: ☒ READY TO USE

Generated: December 29, 2025, 9:55 PM IST