

# 🎯 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
```

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]

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### \*\*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

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## ## 📋 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)

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## ## 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

10. Generate + Deliver: Week\_[X]\_Daily\_Progress\_Checklist.md

\*\*Total per week: 11 files\*\*

### \*\*File Format for Delivery:\*\*

## [File Complete]

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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:\*\*

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

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## ## 🎉 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
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## ## 📈 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)\*\*

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## ## 🎁 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

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## ## 📋 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

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## ## 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

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\*\*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.\*\*

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\*Prompt Version: 8.0\*  
\*Status:  READY TO USE\*  
\*Generated: December 29, 2025, 9:55 PM IST\*