**Complete Guide to HackWithInfy 2025** (Updated June 2025)

**Introduction**

[HackWithInfy](https://www.infosys.com/careers/hackwithinfy.html) is Infosys’ premier coding competition for engineering students in India. It offers **pre-placement interviews (PPIs)** for technical roles with competitive compensation. The contest evaluates:

* **Round 1**: Algorithmic problem-solving (3 hours)
* **Round 2**: Innovation hackathon (48 hours)

**Roles & Compensation**

| **Role** | **CTC (LPA)** | **Key Selection Criteria** |
| --- | --- | --- |
| **System Engineer (SE)** | ₹3.5 | Arrays, sorting, basic recursion |
| **Digital Specialist (DSP)** | ₹6.2 | DP, graphs, backtracking |
| **Specialist Programmer (SP)** | ₹9.5 | Segment trees, game theory, CP-level mastery |

**Competition Structure**

**Round 1: Online Coding (3 Hours)(**[**Click Here for more details**](https://prepinsta.com/hackwithinfy/syllabus/)**)**

* **Format**: 3 problems (Easy/Medium/Hard)
* **Qualification**:
  + SE: Solve ≥1 problem
  + DSP: Solve ≥2 problems (including 1 medium)
  + SP: Solve all optimally
* **Key Topics**:
  + [Arrays/Strings](https://leetcode.com/tag/array/)
  + [Dynamic Programming](https://leetcode.com/tag/dynamic-programming/)
  + [Advanced Trees](https://leetcode.com/tag/tree/)

**Round 2: Grand Finale (48-Hour Hackathon) )(**[**Click Here for more details**](https://prepinsta.com/hackwithinfy/syllabus/)**)**

* **Deliverables**: Prototype + pitch deck + demo video
* **Winning Tech Stacks**:

| **Domain** | **Tools** |
| --- | --- |
| Web | MERN (MongoDB, Express, React, Node) |
| AI/ML | TensorFlow + Scikit-learn |
| Cloud | AWS/Azure deployment |

* **Judging Criteria**: Innovation (40%), scalability (30%), UI/UX (30%)

**DSA Syllabus & Resources (**[**Link**](https://prepinsta.com/hackwithinfy/syllabus/)**)**

**1. System Engineer (SE)**

* **Topics**: Binary search, BFS/DFS, basic recursion
* **Resources**:
  + [GeeksforGeeks SE Guide](https://www.geeksforgeeks.org/data-structures/)
  + [LeetCode Easy Problems](https://leetcode.com/problemset/?difficulty=EASY)

**2. Digital Specialist (DSP)**

* **Topics**: 0/1 Knapsack, Dijkstra’s, Trie
* **Resources**:
  + [Striver’s DSP DSA Sheet](https://takeuforward.org/interviews/strivers-sde-sheet-top-coding-interview-problems/)
  + [HackerRank Graphs](https://github.com/amirkhan1092/HackerRank)

**3. Specialist Programmer (SP)**

* **Topics**: HLD, XOR tricks, matrix exponentiation
* **Resources**:
  + [CodeForces 1500+ Problems](https://codeforces.com/problemset?tags=1500-1600)
  + [CP-Algorithms Advanced Guide](https://cp-algorithms.com/)
  + [HackerRank](https://github.com/amirkhan1092/HackerRank)

**Preparation Strategy**

**Phase 1: Foundation (1st Week)**

* **Daily Routine**:

Morning (2 hrs): Topic study (e.g., DP)

Afternoon (2 hrs): Solve 10 problems (LeetCode/CodeChef)

Evening (1 hr): Analyze failed solutions

* **Tools**: [Visualgo](https://visualgo.net/) for algorithm visualization

**Phase 2: Contest Simulation (2nd Week)**

* **Weekly Plan**:

| **Day** | **Activity** |
| --- | --- |
| Mon-Wed | Topic drills (e.g., graphs only) |
| Thu-Fri | 3-hour mock tests |
| Sat | Live contests (CodeForces/LeetCode) |

**Phase 3: Hackathon Readiness**

* **Key Steps**:
  1. Master 1 full-stack framework (e.g., [React](https://react.dev/learn))
  2. Build 2 projects using APIs (e.g., [Google Maps API](https://developers.google.com/maps/documentation))
  3. Deploy on [AWS](https://aws.amazon.com/getting-started/hands-on/deploy-nodejs-web-app/)

**Top 10 Must-Solve Problems**

1. **Arrays**: [Max Subarray Sum](https://leetcode.com/problems/maximum-subarray/)
2. **DP**: [0/1 Knapsack](https://leetcode.com/problems/partition-equal-subset-sum/)
3. **Graphs**: [Dijkstra’s Shortest Path](https://leetcode.com/problems/network-delay-time/)
4. **Trees**: [LCA in Binary Tree](https://leetcode.com/problems/lowest-common-ancestor-of-a-binary-tree/)
5. **Bit Manipulation**: [Single Number II](https://leetcode.com/problems/single-number-ii/)
6. **Backtracking**: [N-Queens](https://leetcode.com/problems/n-queens/)
7. **Hashing**: [Group Anagrams](https://leetcode.com/problems/group-anagrams/)
8. **Greedy**: [Coin Change](https://leetcode.com/problems/coin-change/)
9. **Trie**: [Word Search II](https://leetcode.com/problems/word-search-ii/)
10. **Segment Trees**: [Range Sum Query](https://leetcode.com/problems/range-sum-query-mutable/)

**Hackathon Toolkit**

| **Category** | **Tools** |
| --- | --- |
| **Frontend** | React, Angular, Tailwind CSS |
| **Backend** | Node.js, Django, Flask |
| **Database** | MongoDB, Firebase |
| **Deployment** | AWS EC2, Vercel, Netlify |
| **APIs** | [OpenWeather](https://openweathermap.org/api), [Twilio](https://www.twilio.com/docs/sms) |

**Project Ideas**:

* AI-based crop disease detector (IoT + ML)
* Blockchain voting system
* Mental health chatbot (NLP)

**Verified Resources**

**Practice Platforms**

* [LeetCode (Infosys Tag)](https://leetcode.com/company/infosys/)
* [Hackerrank](https://github.com/amirkhan1092/HackerRank)
* [GeeksforGeeks DSA](https://practice.geeksforgeeks.org/explore?page=1&sortBy=submissions)

**Previous Year Papers**

* [2023 Questions](https://www.geeksforgeeks.org/hackwithinfy-previous-year-questions/)
* [2022 Solutions](https://codeforces.com/blog/entry/104443)

**Video Tutorials**

* [DSA Mastery](https://youtu.be/8hly31xKli0)
* [MERN Stack](https://youtu.be/CvCiNeLnZ00)
* [AWS Deployment](https://youtu.be/Ig1PrdXQVb4)

**Community Support**

* **Discussion Forums**:
  + [Infosys Careers Forum](https://careers.infosys.com/forum/)
  + [LeetCode Discuss](https://leetcode.com/discuss/interview-question?currentPage=1&orderBy=hot&query=)
* **Q&A**: [Stack Overflow Infosys Tag](https://stackoverflow.com/questions/tagged/infosys)
* **Study Groups**: [Discord Server](https://discord.gg/hackwithinfy)

**Preparation Timeline(For Very Beginner)**

| **Timeframe** | **Activity** |
| --- | --- |
| **Months 1-2** | Complete [Striver’s SDE Sheet](https://takeuforward.org/interviews/strivers-sde-sheet-top-coding-interview-problems/" \t "_blank) |
| **Month 3** | Solve [CodeForces Contests](https://codeforces.com/contests) |
| **Last 2 Weeks** | Build hackathon prototype |

**Final Checklist**

1. **Before Round 1**:
   * Solve all [2023 questions](https://www.geeksforgeeks.org/interview-experiences/infosys-hackwithinfy-interview-experience-for-dse-2022-4/)
   * Achieve LeetCode rating ≥1600 (for SP)
2. **Before Hackathon**:
   * Prepare cloud deployment scripts
   * Draft problem statement with societal impact
3. **During Hackathon**:
   * Prioritize working demo over extra features
   * Document code with comments

**Pro Tip**: For SP roles, maintain a **CodeForces rating ≥1600**. Track progress [here](https://codeforces.com/ratings).

<https://img.shields.io/badge/DAYS_LEFT-120-green?style=flat-square>

**Need Help?**

* Email: hackwithinfy.support@infosys.com
* Live Chat: [Infosys Careers Portal](https://careers.infosys.com/)