

# FAANG

## Software Engineer

### Complete Interview Guide 2025

Meta x Apple x Amazon x Netflix x Google

Coding · System Design · Behavioral · Company-Specific Strategies · Java Solutions  
Based on 1,000+ real interview reports from Glassdoor, LeetCode, IGotAnOffer & Blind (2024–2025)

# Section 1 — FAANG Overview & Comparison

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FAANG (Meta, Apple, Amazon, Netflix, Google) represents the most prestigious tier of tech employers, with acceptance rates of 3–5% — comparable to Ivy League schools. While the companies share a common interview framework, each has distinct culture, evaluation focus, and compensation structure.

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## 1.1 Interview Process Comparison

Company	Rounds	Key Focus	Unique Element	Avg. Timeline
Meta 	6–7	Speed + Correctness	AI-assisted coding round (Q4 2025)	27 days
Apple 	4–8	Craftsmanship + Privacy	Team-specific deep dives	4–8 weeks
Amazon 	5–7	Leadership Principles	Bar Raiser round (neutral arbiter)	3–5 weeks
Netflix 	5–7	Systems Thinking	No onsite coding tests for senior roles	4–6 weeks
Google 	5–6	Complexity + Scalability	Hiring Committee (7-point scale)	4–8 weeks

## 1.2 Salary Bands by Level (Total Compensation, 2025)

Level	Meta	Google	Amazon	Apple	Netflix
Entry (L3/E3)	\$180K–\$230K	\$170K–\$210K	\$150K–\$195K	\$160K–\$200K	\$200K–\$280K
Mid (L4/E4)	\$240K–\$320K	\$220K–\$290K	\$195K–\$260K	\$210K–\$280K	\$280K–\$380K
Senior (L5/E5)	\$320K–\$450K	\$300K–\$430K	\$255K–\$360K	\$280K–\$390K	\$380K–\$600K
Staff (L6/E6)	\$500K–\$700K	\$480K–\$660K	\$350K–\$500K	\$400K–\$580K	\$600K–\$900K
Principal+	\$700K–\$2M+	\$700K–\$2M+	\$500K–\$1.5M+	\$600K–\$1.5M+	\$900K–\$2M+

## 1.3 Chaos Score & Predictability

Most Standardized (Easiest to predict): Meta > Google > Amazon

Least Predictable: Apple (#1 most chaotic) and Netflix (#2 most chaotic)

Meta: Most rigorous interviewer training — each interviewer must pass a calibration bar before interviewing candidates

Google: 7-point hire scale; Hiring Committee (HC) makes final decision, not just interviewers

Amazon: 'Bar Raiser' is a neutral trained interviewer who can veto any hire — 25% of SDEs who pass technical are rejected on behavioral alone

Apple & Netflix: Non-standardized, team-specific — the interviewer has wide latitude to ask whatever they choose

## Section 2 — Coding Interview Questions & Solutions

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The following questions are drawn from real candidate reports across all 5 FAANG companies (2024–2025). Each includes the problem statement, a concrete example, the optimal approach, time/space complexity, and a complete Java solution.

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### Q1. Two Sum

Easy | `HashMap` — Google, Meta, Amazon

#### Problem

Given an array of integers `nums` and an integer `target`, return indices of the two numbers that add up to `target`. You may assume exactly one solution exists.

#### Example

```
Input:  nums = [2, 7, 11, 15], target = 9
Output: [0, 1]    // nums[0] + nums[1] = 2 + 7 = 9
```

#### Approach

Use a `HashMap`: iterate through the array. For each element, check if `(target - element)` exists in the map. If yes, return both indices. Otherwise, store the element and its index.

 Complexity: Time:  $O(n)$  | Space:  $O(n)$

 **Java Solution**

```
public int[] twoSum(int[] nums, int target) {  
    Map<Integer, Integer> map = new HashMap<>();  
    for (int i = 0; i < nums.length; i++) {  
        int complement = target - nums[i];  
        if (map.containsKey(complement))  
            return new int[]{map.get(complement), i};  
        map.put(nums[i], i);  
    }  
    return new int[]{};  
}
```

**Q2. Longest Substring Without Repeating Characters**Medium | Sliding Window –  
Google, Meta **Problem**

Given a string  $s$ , find the length of the longest substring without repeating characters.

 **Example**

Input:  $s = "abcabcbb"$

Output: 3 // "abc"

Input:  $s = "pwwkew"$

Output: 3 // "wke"

## Approach

Sliding window with a HashMap storing the last seen index of each character. When a duplicate is found, move the left pointer past its last occurrence.

 Complexity: Time:  $O(n)$  | Space:  $O(\min(n, 128))$

## Java Solution

```
public int lengthOfLongestSubstring(String s) {  
  
    Map<Character, Integer> map = new HashMap<>();  
  
    int maxLen = 0, left = 0;  
  
    for (int right = 0; right < s.length(); right++) {  
  
        char c = s.charAt(right);  
  
        if (map.containsKey(c) && map.get(c) >= left)  
            left = map.get(c) + 1;  
  
        map.put(c, right);  
  
        maxLen = Math.max(maxLen, right - left + 1);  
  
    }  
  
    return maxLen;  
}
```

## Q3. Word Ladder

Hard | BFS — Google

## Problem

Given two words (`beginWord`, `endWord`) and a word dictionary, find the number of words in the shortest transformation sequence from `beginWord` to `endWord`. Each step changes exactly one letter and each intermediate word must be in the dictionary.

## Example

```
Input: beginWord="hit", endWord="cog",
       wordList=["hot","dot","dog","lot","log","cog"]
Output: 5
Path:  "hit" → "hot" → "dot" → "dog" → "cog"
```

## Approach

BFS from `beginWord`. At each level, generate all 1-letter mutations of current word, check if they exist in the dictionary set, and enqueue them. First time `endWord` is reached = shortest path.

 **Complexity:** Time:  $O(M^2 \times N)$  where  $M=\text{word length}$ ,  $N=\text{dict size}$  | Space:  $O(M^2 \times N)$

## Java Solution

```

public int ladderLength(String beginWord, String endWord, List<String> wordList) {
    Set<String> wordSet = new HashSet<>(wordList);
    if (!wordSet.contains(endWord)) return 0;
    Queue<String> queue = new LinkedList<>();
    queue.offer(beginWord);
    int level = 1;
    while (!queue.isEmpty()) {
        int size = queue.size();
        for (int i = 0; i < size; i++) {
            char[] word = queue.poll().toCharArray();
            for (int j = 0; j < word.length; j++) {
                char orig = word[j];
                for (char c = 'a'; c <= 'z'; c++) {
                    word[j] = c;
                    String next = new String(word);
                    if (next.equals(endWord)) return level + 1;
                    if (wordSet.remove(next)) queue.offer(next);
                }
                word[j] = orig;
            }
        }
        level++;
    }
    return 0;
}

```

#### Q4. Product of Array Except Self

Medium | Prefix/Suffix —  
Meta, Amazon, Apple

#### Problem

Given an integer array `nums`, return an array where `answer[i]` equals the product of all elements except `nums[i]`. Run in  $O(n)$

without division.

### Example

```
Input:  nums = [1, 2, 3, 4]
```

```
Output: [24, 12, 8, 6]
```

### Approach

**Two-pass:** first compute prefix products left-to-right into `result[]`. Then multiply by suffix products right-to-left using a rolling variable — no extra array needed.

### Java Solution

```
public int[] productExceptSelf(int[] nums) {  
    int n = nums.length;  
    int[] result = new int[n];  
    result[0] = 1;  
    for (int i = 1; i < n; i++)  
        result[i] = result[i-1] * nums[i-1];  
    int right = 1;  
    for (int i = n-1; i >= 0; i--) {  
        result[i] *= right;  
        right *= nums[i];  
    }  
    return result;  
}
```

## Q5. LRU Cache

Hard | Design — Meta, Google, Amazon

### Problem

Design a data structure for a Least Recently Used (LRU) cache. Implement `LRUCache(capacity)`, `get(key) → O(1)`, and `put(key, value) → O(1)`. Evict the LRU item when capacity is exceeded.

### Example

```
LRUCache cache = new LRUCache(2);

cache.put(1, 1);    // {1=1}

cache.put(2, 2);    // {1=1, 2=2}

cache.get(1);       // returns 1 → {2=2, 1=1}

cache.put(3, 3);    // evicts key 2 → {1=1, 3=3}

cache.get(2);       // returns -1
```

### Approach

Combine a `HashMap` ( $O(1)$  lookup by key) with a `Doubly Linked List` ( $O(1)$  insert/remove). Keep **MRU** at head, **LRU** at tail. On every access or insertion, move node to head. Evict tail node when over capacity.

 **Complexity:** Time:  $O(1)$  all ops | Space:  $O(\text{capacity})$

### Java Solution

```

class LRUCache {

    class Node { int key, val; Node prev, next; Node(int k,int v){key=k;val=v;} }

    Map<Integer,Node> map = new HashMap<>();

    int cap;

    Node head = new Node(0,0), tail = new Node(0,0);

    LRUCache(int capacity) {

        cap = capacity;

        head.next = tail; tail.prev = head;

    }

    public int get(int key) {

        if (!map.containsKey(key)) return -1;

        Node n = map.get(key); remove(n); addFront(n); return n.val;

    }

    public void put(int key, int val) {

        if (map.containsKey(key)) remove(map.get(key));

        Node n = new Node(key,val); map.put(key,n); addFront(n);

        if (map.size() > cap) { map.remove(tail.prev.key); remove(tail.prev); }

    }

    void remove(Node n) { n.prev.next=n.next; n.next.prev=n.prev; }

    void addFront(Node n) { n.next=head.next; n.prev=head; head.next.prev=n;

head.next=n; }

}

```

## Q6. Maximum Subarray

Medium | Kadane's DP —  
Amazon, Apple



Given an integer array `nums`, find the contiguous subarray with the largest sum and return its sum.

## Example

```
Input:  nums = [-2, 1, -3, 4, -1, 2, 1, -5, 4]
```

```
Output: 6    // subarray [4, -1, 2, 1]
```

## Approach

**Kadane's Algorithm:** track **currentSum**. At each element, decide to either start fresh (take **nums[i]**) or extend (**currentSum + nums[i]**). **maxSum** tracks the global best.

 **Complexity:** Time:  $O(n)$  | Space:  $O(1)$

## Java Solution

```
public int maxSubArray(int[] nums) {  
  
    int maxSum = nums[0], currentSum = nums[0];  
  
    for (int i = 1; i < nums.length; i++) {  
  
        currentSum = Math.max(nums[i], currentSum + nums[i]);  
  
        maxSum = Math.max(maxSum, currentSum);  
  
    }  
  
    return maxSum;  
}
```

## Q7. Course Schedule

Medium | Topological Sort —  
Google, Meta

## Problem

There are `numCourses` courses (0 to `numCourses`-1). Each prerequisite pair `[a, b]` means b must be taken before a. Return true if you can finish all courses.

### Example

```
Input: numCourses = 2, prerequisites = [[1,0]]
```

```
Output: true // take 0 then 1
```

```
Input: numCourses = 2, prerequisites = [[1,0],[0,1]]
```

```
Output: false // cycle detected
```

### Approach

Build a directed graph. Run DFS and maintain a visited state: 0=unvisited, 1=visiting (in current path), 2=done. If we visit a node with state 1, there's a cycle  $\rightarrow$  return false.

 Complexity: Time:  $O(V + E)$  | Space:  $O(V + E)$

### Java Solution

```

public boolean canFinish(int numCourses, int[][] prerequisites) {
    List<List<Integer>> graph = new ArrayList<>();
    for (int i = 0; i < numCourses; i++) graph.add(new ArrayList<>());
    for (int[] p : prerequisites) graph.get(p[1]).add(p[0]);
    int[] state = new int[numCourses]; // 0=unvisited, 1=visiting, 2=done
    for (int i = 0; i < numCourses; i++) {
        if (hasCycle(graph, state, i)) return false;
    }
    return true;
}

private boolean hasCycle(List<List<Integer>> graph, int[] state, int node) {
    if (state[node] == 1) return true;
    if (state[node] == 2) return false;
    state[node] = 1;
    for (int next : graph.get(node)) {
        if (hasCycle(graph, state, next)) return true;
    }
    state[node] = 2;
    return false;
}

```

## Q8. Number of Islands

Medium | BFS/DFS —  
Amazon, Apple, Netflix

### Problem

Given a 2D binary grid where '1' represents land and '0' represents water, count the number of islands. An island is surrounded by water and is formed by connecting adjacent lands horizontally or vertically.

### Example

```
Input: grid = [["1","1","0","0","0"],  
              ["1","1","0","0","0"],  
              ["0","0","1","0","0"],  
              ["0","0","0","1","1"]]
```

```
Output: 3
```

## 🔍 Approach

**DFS flood-fill:** when a '1' is found, increment count and DFS to mark all connected '1's as '0' (visited). Each DFS invocation covers exactly one island.

⌚ Complexity: Time:  $O(m \times n)$  | Space:  $O(m \times n)$  worst

## ☕ Java Solution

```
public int numIslands(char[][] grid) {  
    int count = 0;  
  
    for (int i = 0; i < grid.length; i++)  
  
        for (int j = 0; j < grid[0].length; j++)  
  
            if (grid[i][j] == '1') { dfs(grid, i, j); count++; }  
  
    return count;  
}  
  
void dfs(char[][] g, int i, int j) {  
  
    if (i < 0 || i >= g.length || j < 0 || j >= g[0].length || g[i][j] != '1') return;  
  
    g[i][j] = '0';  
  
    dfs(g, i+1, j); dfs(g, i-1, j); dfs(g, i, j+1); dfs(g, i, j-1);  
}
```

 **Problem**

Given an array of intervals, merge all overlapping intervals and return the non-overlapping result.

 **Example**

Input: `[[1,3],[2,6],[8,10],[15,18]]`

Output: `[[1,6],[8,10],[15,18]]`

 **Approach**

Sort by start time. Iterate and check if the current interval overlaps with the last merged interval (`curr.start <= last.end`). If so, extend `last.end`; otherwise, add a new interval.

⌚ **Complexity:** Time:  $O(n \log n)$  | Space:  $O(n)$

 **Java Solution**

```

public int[][] merge(int[][] intervals) {
    Arrays.sort(intervals, (a, b) -> a[0] - b[0]);
    List<int[]> merged = new ArrayList<>();
    for (int[] iv : intervals) {
        if (merged.isEmpty() || merged.get(merged.size() - 1)[1] < iv[0])
            merged.add(iv);
        else
            merged.get(merged.size() - 1)[1] = Math.max(merged.get(merged.size() - 1)[1], iv[1]);
    }
    return merged.toArray(new int[merged.size()][]);
}

```

## Q10. Coin Change

Medium | Dynamic Programming — Amazon, Netflix

### Problem

Given an integer array coins and an integer amount, return the fewest number of coins needed to make up that amount. Return -1 if it cannot be made.

### Example

Input: coins = [1, 5, 11], amount = 15

Output: 3 // 5+5+5

Input: coins = [2], amount = 3

Output: -1

## Approach

DP bottom-up:  $dp[i]$  = minimum coins to make amount  $i$ . For each amount, try all coin denominations:  $dp[i] = \min(dp[i], dp[i - \text{coin}] + 1)$ . Initialize  $dp[0]=0$ , all others=infinity.

⌚ Complexity: Time:  $O(\text{amount} \times \text{coins})$  | Space:  $O(\text{amount})$

## Java Solution

```
public int coinChange(int[] coins, int amount) {  
    int[] dp = new int[amount + 1];  
    Arrays.fill(dp, amount + 1);  
    dp[0] = 0;  
    for (int i = 1; i <= amount; i++)  
        for (int coin : coins)  
            if (coin <= i)  
                dp[i] = Math.min(dp[i], dp[i - coin] + 1);  
    return dp[amount] > amount ? -1 : dp[amount];  
}
```

## Q11. Find Median from Data Stream

Hard | Two Heaps — Google, Meta

## Problem

Design a data structure that supports `addNum(int)` and `findMedian()` efficiently. The median is the middle value of all numbers seen so far.

## Example

```
addNum(1) → addNum(2) → findMedian() = 1.5
addNum(3) → findMedian() = 2.0
```

## Approach

Maintain two heaps: **maxHeap (lower half)** and **minHeap (upper half)**. Always balance so  $|lo.size - hi.size| \leq 1$ . Median is `lo.peek()` if odd, or average of both tops if even.

 Complexity: Time:  $O(\log n)$  add,  $O(1)$  `findMedian` | Space:  $O(n)$

## Java Solution

```
class MedianFinder {
    PriorityQueue<Integer> lo = new PriorityQueue<>(Collections.reverseOrder());
    PriorityQueue<Integer> hi = new PriorityQueue<>();

    public void addNum(int num) {
        lo.offer(num);
        hi.offer(lo.poll());
        if (lo.size() < hi.size()) lo.offer(hi.poll());
    }

    public double findMedian() {
        return lo.size() > hi.size() ? lo.peek() : (lo.peek() + hi.peek()) / 2.0;
    }
}
```

 **Problem**

A path in a binary tree starts and ends at any node. Given the root, return the maximum path sum (can be negative values).

 **Example**

```
Input: root = [-10, 9, 20, null, null, 15, 7]
```

```
Output: 42 // path: 15 → 20 → 7
```

 **Approach**

Post-order DFS: for each node, compute max single-path gain from left and right subtrees (clamp to 0 if negative). Update global max with `node.val + left_gain + right_gain`. Return `node.val + max(left, right) gain`.

⌚ **Complexity:** Time:  $O(n)$  | Space:  $O(h)$

 **Java Solution**

```
int maxSum = Integer.MIN_VALUE;

public int maxPathSum(TreeNode root) {
    dfs(root); return maxSum;
}

private int dfs(TreeNode node) {
    if (node == null) return 0;
    int left = Math.max(0, dfs(node.left));
    int right = Math.max(0, dfs(node.right));
    maxSum = Math.max(maxSum, node.val + left + right);
    return node.val + Math.max(left, right);
}
```

## Section 3 — System Design Interviews

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System design rounds are 45–60 minutes and focus on your ability to architect scalable, reliable, distributed systems. For senior+ engineers, this is often the highest-weighted round. Each company has slightly different expectations.

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### 3.1 Top System Design Questions by Company

Company	Most Frequent Questions
Meta 	Design Facebook News Feed, Design Instagram Stories, Design WhatsApp Messaging, Design Facebook Video Upload, Design Notification System
Google 	Design Google Search, Design YouTube, Design Google Maps, Design Gmail, Design Google Docs (collaborative editing)
Amazon 	Design Amazon Product Search, Design Recommendation Engine, Design Payment System, Design S3 / Cloud Storage, Design Rate Limiter
Apple 	Design iCloud Sync, Design App Store, Design Apple Pay, Design Siri Backend, Design iOS Push Notifications
Netflix 	Design Netflix Video Streaming, Design Content Delivery Network, Design Recommendation Engine, Design Real-time Analytics

### 3.2 Universal System Design Framework (5-Step Method)

Step 1 — Clarify Requirements (5 min): Functional reqs (what it does) + Non-functional reqs (scale, latency, availability, consistency). Always ask scale before designing.

Step 2 — Capacity Estimation (5 min): DAU, QPS (reads vs writes), storage per year, bandwidth. Size determines design choices.

Step 3 — High-Level Architecture (15 min): Core components — API layer, services, databases, caches, queues. Draw data flow.

Step 4 — Deep Dive (15 min): Pick 2 critical components and design in detail (DB schema, caching strategy, consistency model, partitioning).

Step 5 — Scale & Trade-offs (10 min): Discuss bottlenecks, single points of failure, how to scale each tier, CAP theorem trade-offs.

### 3.3 Deep Dive: Design YouTube Video Streaming (Google / Netflix)

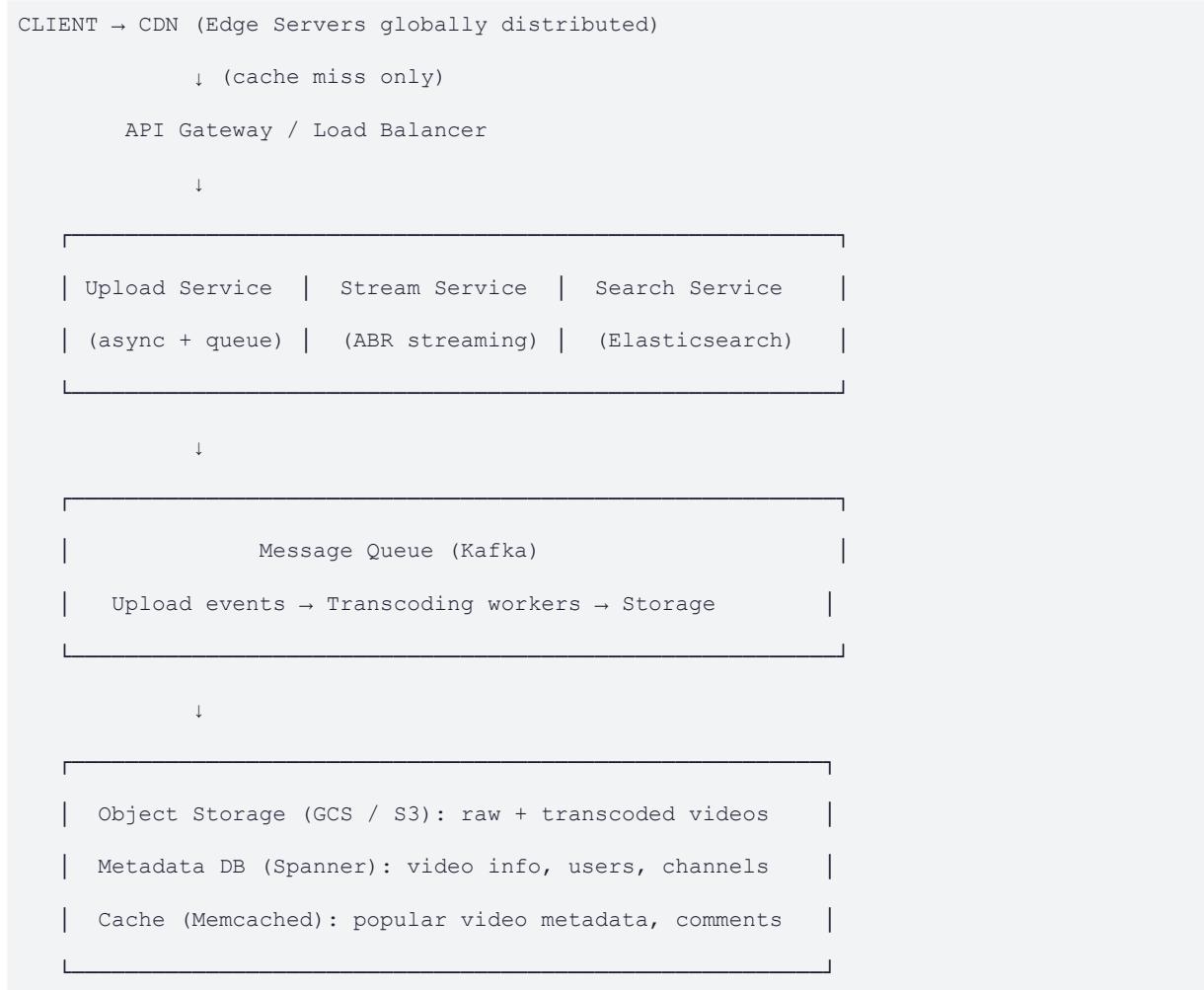
## Requirements

Functional: Upload videos, stream videos at different resolutions, search, comments, likes, subscriptions, recommendations.

Non-functional: 2B+ monthly active users, 500 hours of video uploaded per minute, sub-2s playback start time, 99.99% availability.

Scale: ~100M DAU, 10:1 read-write ratio, 5 PB storage/day for new uploads.

## Architecture



## Key Design Decisions

Component	Design Choice	Reason
Video Storage	Object Storage (GCS/S3) + CDN	Immutable blobs; CDN reduces origin load by 95%+

Component	Design Choice	Reason
Transcoding	Kafka queue + worker farm	Async, horizontally scalable, handles 500hrs/min uploads
Video Format	MPEG-DASH / HLS (ABR)	Adaptive bitrate — auto-adjusts to network conditions
Metadata DB	Spanner (globally consistent)	Strong consistency for view counts, likes; geo-replication
Recommendations	Offline ML (TensorFlow)	Batch compute features daily; serve from Redis at query time
Search	Elasticsearch	Inverted index; near-realtime ingestion via Kafka connector

### 3.4 Deep Dive: Design Facebook Messenger / WhatsApp (Meta)



Feature	Solution
Real-time delivery	WebSockets for online users; FCM/APNs push for offline
Message ordering	Snowflake IDs (time + worker + sequence) ensure sort order
Read receipts	Separate events table; batch-flushed to DB every 5s
Storage	Cassandra — write-heavy workloads, horizontal sharding by conv_id
Group messaging	Fan-out on read for large groups (>1000 members); push for small groups

Feature	Solution
End-to-end encryption	Signal Protocol: Double Ratchet algorithm — keys never stored on server

## Section 4 — Company-Specific Interview Strategies

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### Meta

"Move fast and be bold" — Speed, Impact, Ambiguity

#### 4.1 Meta Interview Structure

Rounds: Recruiter screen → Technical phone screen (45 min, 2 LeetCode) → Onsite (5–7 rounds)

Onsite: 2× Coding (Ninja) | 1× System Design (Pirate) | 1× Behavioral (Jedi) | 1× Product Design | Optional: AI-Assisted Coding (Q4 2025 pilot)

Difficulty: Coding rounds are Medium-level, speed-focused. Meta is the only FAANG with an AI-assisted coding round (2025).

Key Tip: At Meta, speed matters more than at Google. Aim to finish each coding problem in 15–20 minutes.

Grading: Interviewers score independently, then a hiring committee reviews all scores together.

#### 4.2 Meta Behavioral Questions (Jedi Round)

**"Tell me about a time you wanted to change something outside your scope."**



Meta Tip: Show initiative + influence without authority. Quantify the impact of the change.

**"Describe a time you had to make a fast decision and live with the results."**



Meta Tip: Show decisiveness. Acknowledge imperfection but demonstrate learning.

**"Tell me about a project you drove from idea to production under ambiguity."**



Meta Tip: Meta values autonomy — show you can operate without clear specs.

**"Describe a time you disagreed with your manager and what happened."**

 Meta Tip: Show backbone + respect. STAR. Demonstrate you can 'disagree and commit'.

**"What's the most impactful project you've worked on and why?"**

 Meta Tip: Tie to user impact (millions of users, revenue, reliability). Meta scales.



## Google

"Googleyness" — Curiosity, Intellectual Humility, Collaboration

### 4.3 Google Interview Structure

Rounds: Online Assessment → 1–2 Phone Screens (45 min each) → Onsite (5–6 rounds)

Onsite: 4x Coding | 1x Behavioral (Googleyness) | 1x System Design (senior+)

Unique: 7-point hiring scale (Strong No Hire → Strong Hire). Hiring Committee (not interviewers) makes final decision.

Unique: Google values complexity and depth of thinking over speed. Expect trick questions — problems are disguised.

Key Tip: Always communicate your thought process. Google rewards problem-solving approach, not just correct answers.

Team Matching: You may receive an offer before being matched to a team. Team match happens post-offer.

### 4.4 Google 'Googleyness' Behavioral Questions

**"Tell me about a time you challenged the status quo."**

 Google Tip: Google wants innovators. Show data-driven risk-taking and outcome.

**"How do you work with people who disagree with you?"**

 Google Tip: Googleyness = intellectual humility + collaboration. Show listening skills.

**"Describe a situation where you had to learn something complex quickly."**

 Google Tip: GCA (General Cognitive Ability) signal — show your learning process.

**"Tell me about a time you failed and what you learned."**

 Google Tip: Google values psychological safety and growth mindset. Be honest.



## Amazon

"Day 1 mentality" — 16 Leadership Principles drive every hiring decision

### 4.5 Amazon Interview Structure

Rounds: Online Assessment (2 coding problems + work style survey) → Phone Screen → Onsite (5–7 rounds)

Onsite: 2× Coding | 1× System Design | 3–4× Leadership Principles (LP) | 1× Bar Raiser

Bar Raiser: A neutral, specially trained interviewer who can veto any hire to maintain Amazon's bar. Cannot be overruled.

25% of SDEs who pass the technical bar are rejected purely on LP behavioral concerns — take behavioral prep as seriously as coding.

All 16 Leadership Principles may be tested. Prepare 2 stories per principle. Most emphasized for SDEs: Ownership, Deliver Results, Invent & Simplify.

### 4.6 Amazon's 16 Leadership Principles

#	Principle	Core Idea	Sample Question
1	Customer Obsession	Work backward from customer needs	Tell me about a time you went above and beyond for a customer.
2	Ownership	Act like an owner, not an employee	Describe a critical issue you owned end-to-end without being asked.
3	Invent & Simplify	Innovate; eliminate complexity	Tell me about a simple solution you invented for a complex problem.
4	Are Right, A Lot	Strong judgment + diverse perspectives	Tell me about a time you had to make a decision with limited data.
5	Learn & Be Curious	Lifelong learner, self-improver	What's the most recent technical skill you learned and why?
6	Hire & Develop the Best	Raise the bar with every hire	Tell me about a time you mentored someone who then outperformed.
7	Insist on High Standards	Maintain standards even when inconvenient	Describe a time you raised the bar for your team's quality.
8	Think Big	Take big bets, long-term vision	Tell me about an ambitious goal you set and how you pursued it.
9	Bias for Action	Speed matters; don't wait for perfection	Describe a decision you made quickly with incomplete data.
10	Frugality	Do more with less	Tell me about a time you accomplished more with fewer resources.

#	Principle	Core Idea	Sample Question
11	Earn Trust	Candor + vulnerability + listening	Describe a time you received critical feedback and acted on it.
12	Dive Deep	Get into the details; verify metrics	Tell me about a time you discovered a problem by digging deep.
13	Have Backbone	Respectfully disagree and commit	Describe a time you disagreed with your team and what happened.
14	Deliver Results	Results over activities	Tell me about a time you delivered under a tough deadline.
15	Strive to be Earth's Best Employer	Team safety and growth	How have you created an environment where people thrive?
16	Success and Scale Bring Responsibility	Societal impact awareness	Describe a time you prioritized long-term over short-term gain.

## 4.7 Sample Amazon LP Answer (Ownership + STAR)

Q: "Describe a critical issue you discovered and owned end-to-end."

<b>S — Situation</b>	During a routine code review, I noticed an edge case in our payment retry logic that could cause duplicate charges if our database went down mid-transaction. No one had filed a ticket for this.
<b>T — Task</b>	There was no owner assigned. I chose to own the investigation, fix, and rollout — while still delivering my sprint commitments.
<b>A — Action</b>	I traced the bug through 3 services, wrote a distributed transaction fix using idempotency keys, added monitoring alerts, wrote a postmortem, and briefed my team on the pattern to prevent recurrence.
<b>R — Result</b>	Zero duplicate charges in the 18 months following the fix. Idempotency key pattern was adopted company-wide. I was promoted to SDE III six months later, and this fix was cited in my promo doc.



## Apple

Craftsmanship, Privacy, Cross-functional Collaboration

### 4.8 Apple Interview Structure

Rounds: Recruiter screen → 1–2 Technical phone screens → Onsite/Virtual (4–8 rounds over 4–5 hours)

Onsite: Coding rounds (practical, product-tied problems) + technical deep dives + collaboration/behavioral rounds

Most chaotic FAANG: Apple's interviews are highly team-specific. Two candidates for the same role may have entirely different experiences.

Unlike other FAANG: Apple asks practical coding tied to Apple products (e.g. 'Optimize photo rendering', 'Build a cache for Siri suggestions').

**Key Tip:** Research the specific team you're joining. Apple interviewers often ask domain-specific questions (iOS, macOS, ML, security).

**Privacy Emphasis:** Be ready to discuss data minimization, GDPR, on-device ML, and secure data handling in every round.

### 4.9 Apple Behavioral Questions

**"Tell me about a feature you built where you had to make trade-offs between performance and user experience."**



Apple Tip: Apple's core tension. Show you understand both dimensions and can articulate the decision.

**"Describe a time you had to work with hardware constraints to build a software solution."**



Apple Tip: Apple is unique in controlling hardware + software. Show you think at that intersection.

**"How do you ensure code quality and maintainability in a long-lived codebase?"**



Apple Tip: Apple's code runs for a decade. Show testing rigor, documentation, and code review standards.



## Netflix

Freedom & Responsibility — Senior engineers own entire systems

### 4.10 Netflix Interview Structure

Rounds: Recruiter screen → Technical screen → Culture screen → Onsite (4–7 rounds)

Unique: Netflix does NOT have traditional coding interviews for senior engineers in some teams — they are replaced by architecture and system design discussions.

Culture Screen: Netflix's 'Keeper Test' culture — only hires people managers would fight to keep. Culture fit is a genuine filter.

Engineering: Netflix's architecture is microservices at extreme scale — 15,000+ services, 700M+ streaming hours/day.

Key Tip: Netflix expects senior engineers to own their systems end-to-end including oncall, deployment, and architecture. Show operational ownership.

Compensation: Netflix pays among the highest cash salaries (no equity model) — \$380K–\$900K+ for senior roles.

### 4.11 Netflix Technical Focus: Distributed Systems Deep Dive

Topic	What Netflix Asks	Sample Question
Fault Tolerance	How do you design for failure?	Design a system that remains available if 3 regional DCs fail simultaneously.
Chaos Engineering	Principles of Netflix Chaos Monkey	How would you validate resilience of a distributed service at scale?
Microservices	Service mesh, circuit breakers	How do you prevent cascade failures across 15,000+ microservices?
Streaming	CDN, ABR, video encoding	Design a system that streams 4K to 200M concurrent viewers globally.
Observability	Metrics, tracing, alerting	Walk me through how you'd debug a 50ms P99 latency spike in production.

# Section 5 — Behavioral Interview Frameworks & STAR Answers

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## 5.1 The STAR Method (Universal Framework)

S — Situation: Set the scene. 2–3 sentences. Include scope (team size, system scale, timeline).

T — Task: Your specific responsibility. Not the team's goal — YOUR role.

A — Action: The bulk of your answer (60–70%). What YOU did, step by step. Use 'I', not 'we'.

R — Result: Quantified outcome. % improvement, revenue, user impact, time saved. Always numbers.

Pro Tip: Prepare 10–12 STAR stories. The best stories can map to multiple LP/competency questions.

## 5.2 Cross-Company Behavioral Questions (Real Reports 2024–2025)

**"Tell me about the most impactful project you've worked on."**

 Strategy: All 5 companies ask this. Quantify: 'improved latency by 40%', 'served 500M users', 'reduced cost by \$2M/year'.

**"Describe a time you had to navigate ambiguity to deliver results."**

 Strategy: Meta and Google love this. Show you can break down unknowns into structured experiments.

**"Tell me about a time your team disagreed on a technical decision."**

 Strategy: Amazon (Have Backbone), Meta, Google. Show you can defend a position with data AND commit once decided.

**"Describe a time you mentored or grew someone on your team."**

 Strategy: Critical for Staff+ levels at all 5 companies. Show specific technical or career growth you enabled.

**"Tell me about a time you improved a process or system that wasn't your responsibility."**

 Strategy: Ownership (Amazon), Think Big (Amazon), Initiative (Google/Meta). Show proactive scope expansion.

**"How do you handle a situation where you're wrong and your manager is right?"**

 Strategy: Psychological safety, intellectual humility. Acknowledge gracefully; show you updated your mental model.

### 5.3 Full STAR Example: Conflict + Ownership

**"Tell me about a time you disagreed with a technical direction and what happened."**

<b>S — Situation</b>	Our team was set to adopt a monolithic Java service for a new real-time analytics feature. I believed a stream-processing approach (Kafka + Flink) would be far more scalable, but the tech lead was concerned about operational complexity.
<b>T — Task</b>	I needed to either persuade the team to change direction or accept the monolith — within a 1-week decision window to not delay the sprint.
<b>A — Action</b>	I built a prototype of the Kafka+Flink approach over a weekend, benchmarked it against the monolith proposal (3x throughput, 70% lower cost at 10M events/day), and presented a 5-slide risk-mitigated rollout plan. I also addressed the operational concern by proposing managed Kafka (Confluent Cloud). I had 1:1s with 3 key stakeholders before the final meeting.
<b>R — Result</b>	The team adopted the streaming approach. At launch, the system handled 15M events/day at 99.99% uptime. The monolith prototype would have required 4x the compute. I presented the case study at the company's engineering all-hands. The tech lead publicly credited me for the decision.

## Section 6 — Preparation Roadmap & Resources

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### 6.1 12-Week FAANG Preparation Plan

Week	Focus Area	Daily Target	Key Resources
1–2	Arrays, Strings, HashMaps	5–8 LeetCode Easy/Medium	NeetCode 150, Blind 75
3–4	Trees, Graphs, BFS/DFS	3–5 Medium + tree patterns	LeetCode company tags
5–6	Dynamic Programming	3 Medium/day; coin change, DP on trees	Grokking DP Patterns
7–8	System Design Fundamentals	1 deep-dive design/day	Designing Data-Intensive Apps
9–10	Company-Specific Design	2 designs/day (company-themed)	System Design Primer, Educative
11	Behavioral + STAR Stories	Write 12 STAR stories, 2 per LP bucket	Glassdoor + LeetCode Discuss
12	Mock Interviews + Review	2 full mocks/week + revisit weak spots	interviewing.io, Pramp

### 6.2 Critical Tips by Company

Company	#1 Tip	Biggest Mistake to Avoid
Meta	Solve 2 problems in 35 min — practice speed	Writing perfect code; Meta wants working code fast
Google	Think aloud; discuss O(n) approaches before coding	Starting to code without clarifying the problem
Amazon	Prepare 2 STAR stories per Leadership Principle	Underestimating behavioral — it eliminates 25% of SDEs
Apple	Research the specific team; expect product-tied problems	Generic answers; Apple expects Apple-domain knowledge
Netflix	Show operational ownership of end-to-end systems	Focusing only on architecture; Netflix wants reliability thinking

### 6.3 Essential Resources

- LeetCode (company tags: Meta, Google, Amazon, Apple, Netflix) — primary question bank
- Blind 75 / NeetCode 150 — curated must-solve lists
- Designing Data-Intensive Applications (Kleppmann) — best system design book
- System Design Primer (GitHub: donnemartin) — free, comprehensive
- IGotAnOffer.com — company-specific deep guides with ex-interviewer insights
- interviewing.io — anonymous mock interviews with real FAANG engineers
- Pramp — free peer mock interviews
- Levels.fyi — compensation benchmarking across all companies
- Glassdoor — real recent interview experience reports
- Cracking the Coding Interview (McDowell) — foundational behavioral + coding

Sources: Glassdoor (1,000+ reports) · IGotAnOffer · LeetCode Discuss · interviewing.io · Blind · Hakia · Prepfully · Exponent

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