

Task: Summarize a group $C_{\ell,j}$ into a single parent node at the granularity of $[Abstraction\ level\ \ell]$.

Inputs: $[Issue\ report\ u]$ $[Group\ steps\ C_{\ell,j} \subset L_{\ell}]$ $[Abstraction\ level\ \ell \in \{low, medium, high\}]$

Abstraction guidance:

- When $\ell = low$: produce a concrete sub-goal grounded in project artifacts
- When $\ell = medium$: extract a project-agnostic investigation strategy
- When $\ell = high$: distill a general problem-solving principle

Rules

- Interpret nodes holistically using reasoning traces, tool usage, and existing abstractions
 - Concreteness decreases with ℓ : low-level may name specific APIs; high-level must be fully generic

Output: A structured node with $[level, node_type, summary, intent, rationale, when_to_apply, key_actions, pitfalls]$.