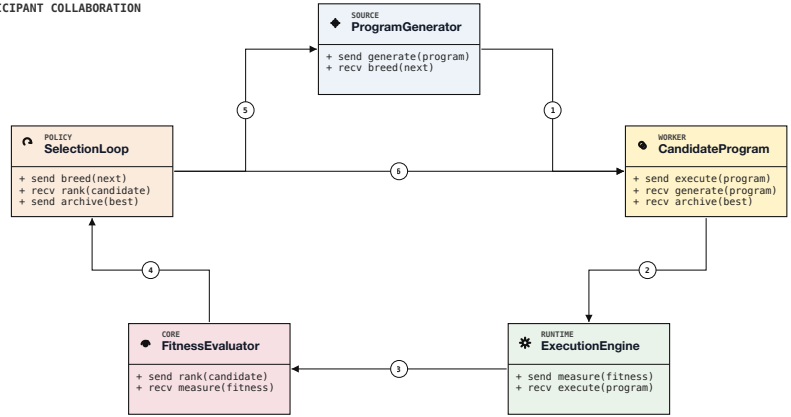
E07 Evaluator-guided program search

Evolution · A² A2/A3 · search role collaboration

Evolve executable candidates.

STRUCTURE · PARTICIPANT COLLABORATION



PATTERN INTERFACE

context
Harness or harness-adjacent behavior is represented as executable programs.

trigger
Candidate programs are generated, mutated, or selected.

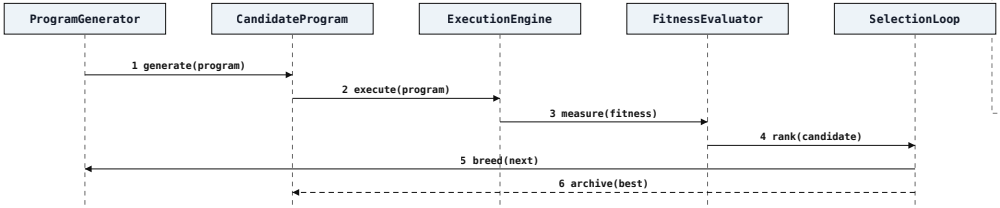
structure
Generator, executor, fitness evaluator, archive, and next-generation policy.

effect
A next generation is selected from measured executable candidates.

CONTRACT ANNOTATIONS

requires	Candidate runtime and evaluation suite are isolated and available.
ensures	Every selected candidate has execution and fitness provenance.
invariant	Evaluation budget and security boundaries hold across all candidates.
violation	Crash, timeout, unsafe code, or invalid fitness removes or quarantines candidate.

INTERACTION



MESSAGE TRACE `1 generate(program) → 2 execute(program) → 3 measure(fitness) → 4 rank(candidate) → 5 breed(next) → 6 archive(best)`

Evidence: 3/41 repositories, 3/36 families; 3 trajectories (2 multi-checkpoint); exact audit: not sampled.

Variation: AlphaEvolve-like search, evolutionary archive, program mutation, and fitness gates.

Negative control: Prompt-level variation with no executable search is not E07.