

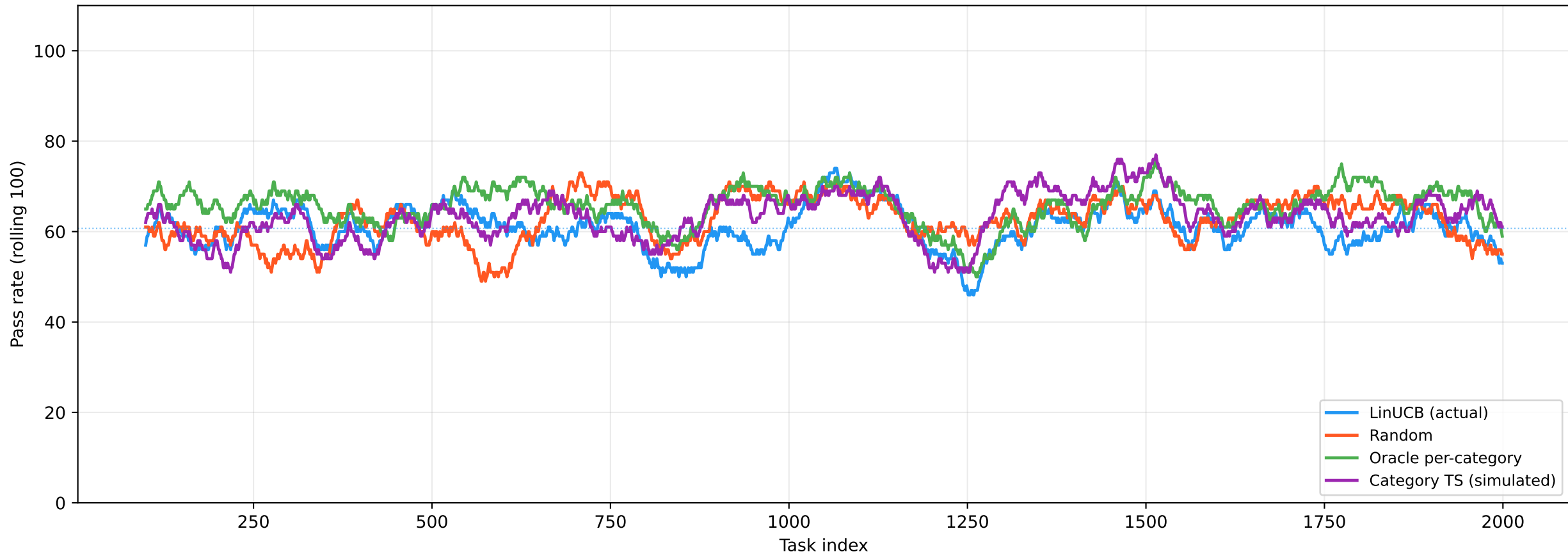
MCN Router Comparison

Retrospective Simulation on Phase 1C (2000 tasks)

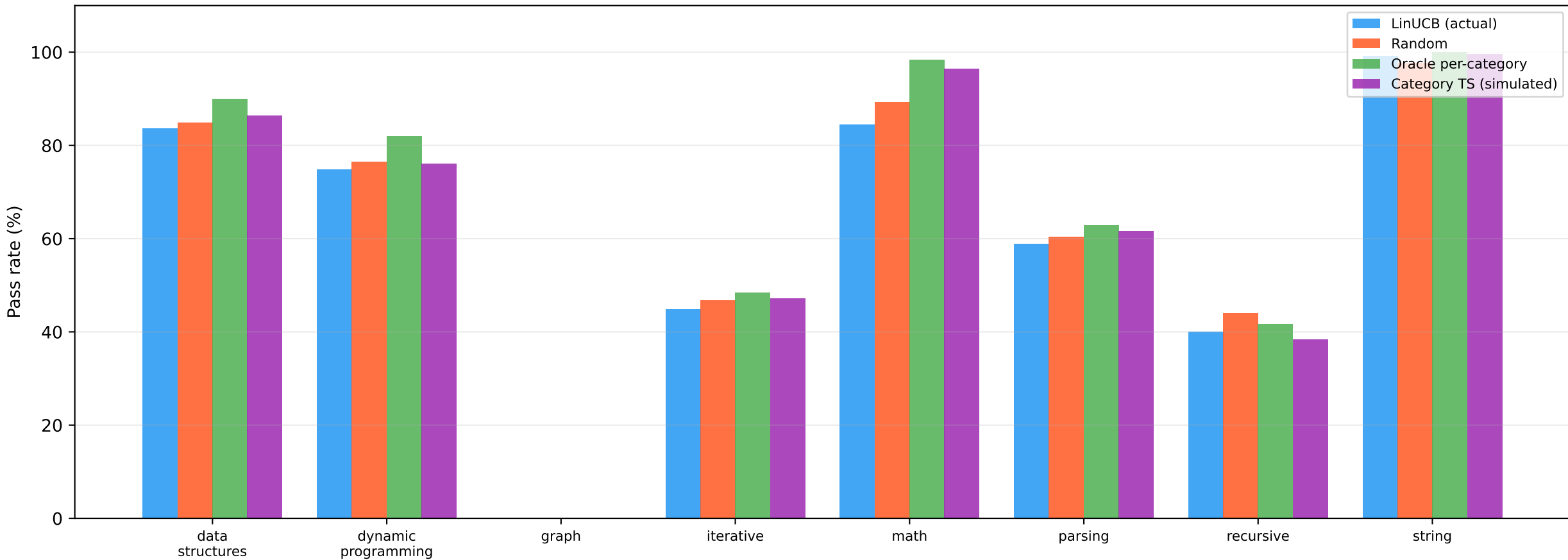
LinUCB | Random | Oracle per-category | Category Thompson Sampling

Strategy	Tasks Passed	Pass Rate
LinUCB (actual)	1214/2000	60.7%
Random	1248/2000	62.4%
Oracle per-category	1308/2000	65.4%
Category TS (simulated)	1264/2000	63.2%

Rolling Pass Rate by Strategy — Phase 1C (2000 tasks)

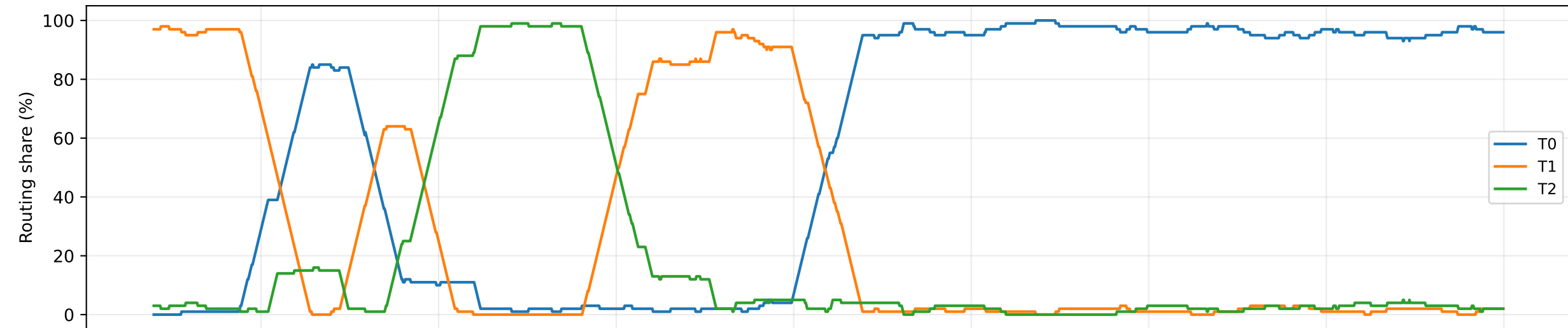


Per-Category Pass Rate by Strategy

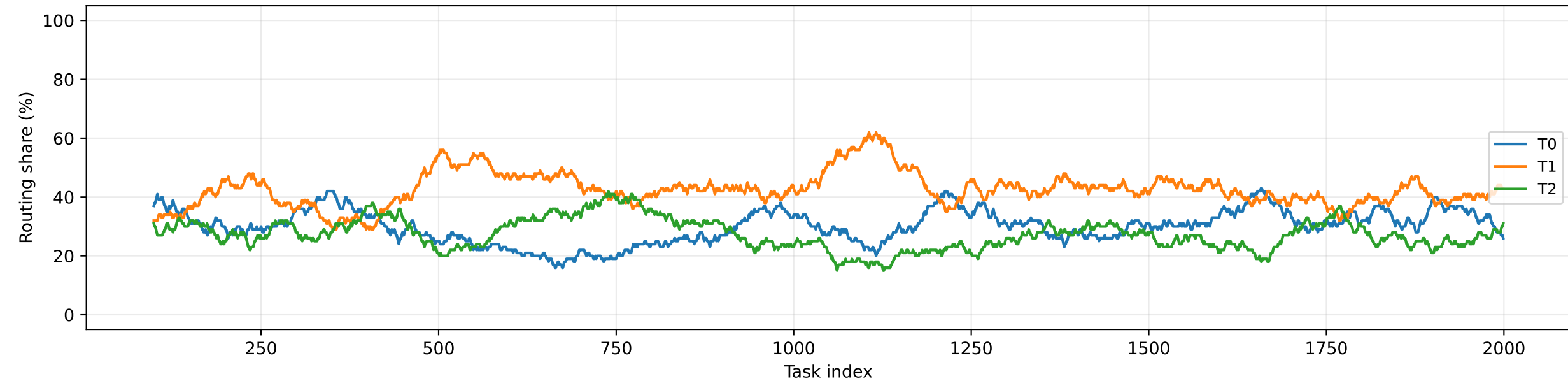


Routing Evolution: LinUCB vs Category Thompson Sampling

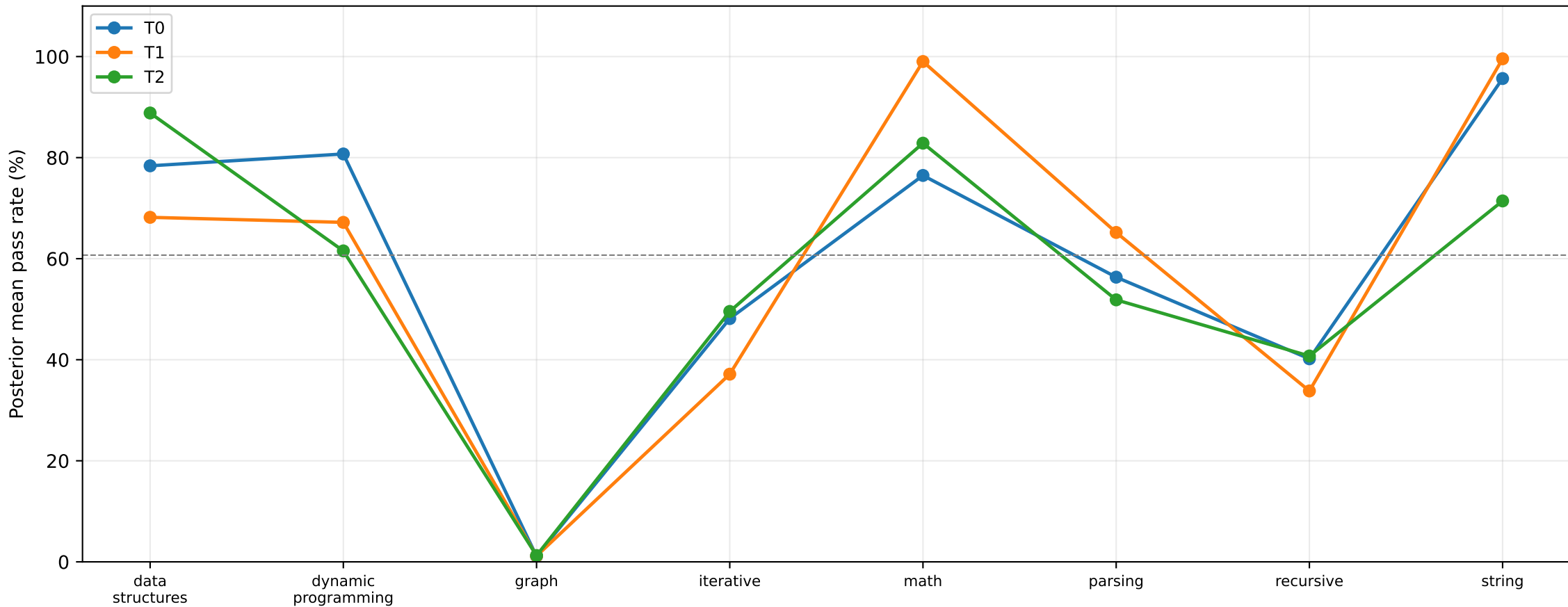
LinUCB Routing (converged to T0 by task 1700)



Category TS Routing (maintains diversity)



Category TS: Posterior Means by (Category, Arm) at End of Sequence



Oracle Gap Decomposition (Phase 1C, 2000 tasks)

