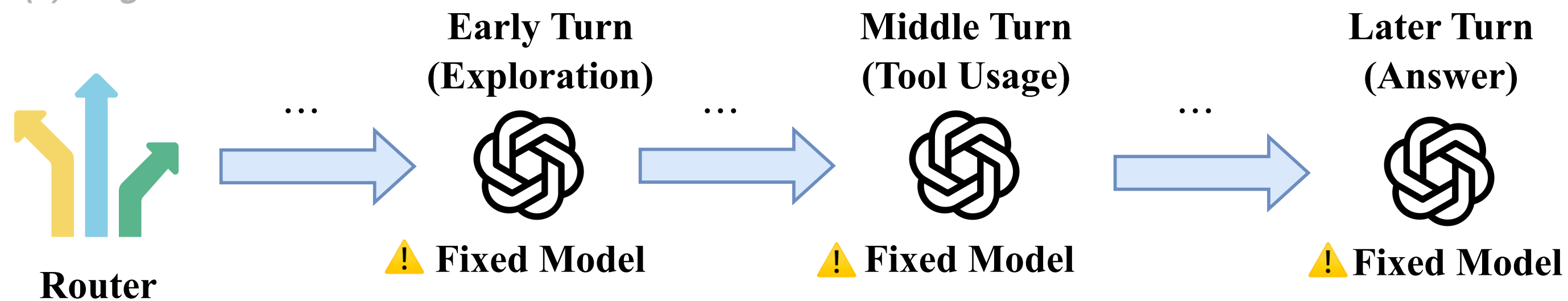**Query: Alex has a row of bins, labeled with the integers in order, His magic marble starts at bin 0, ...**
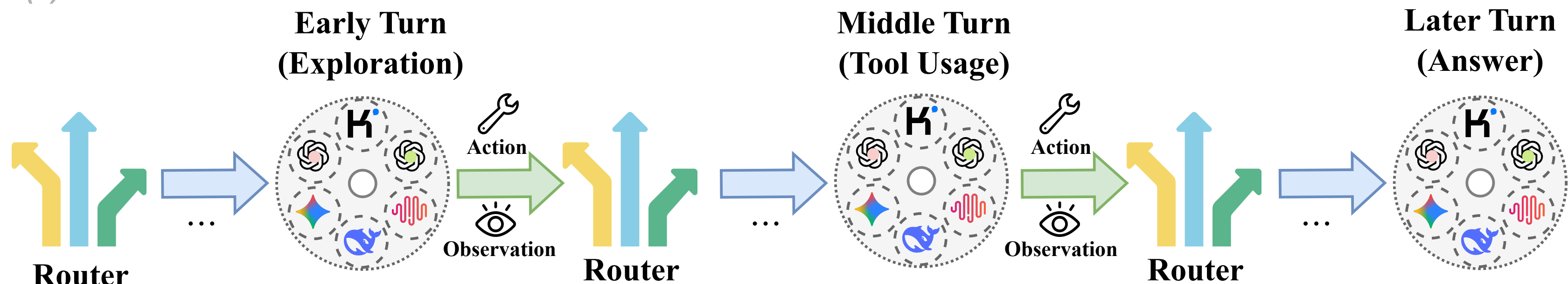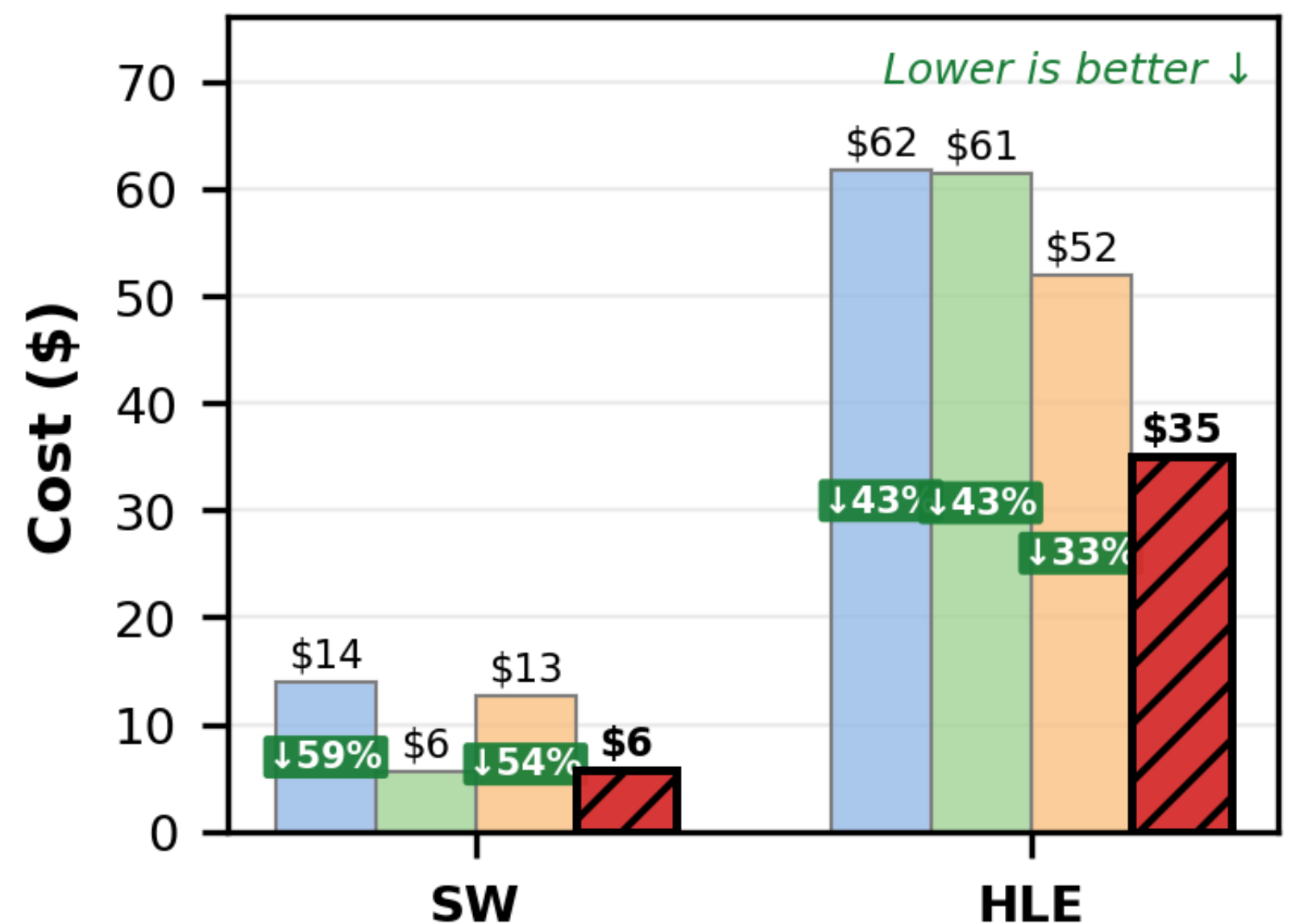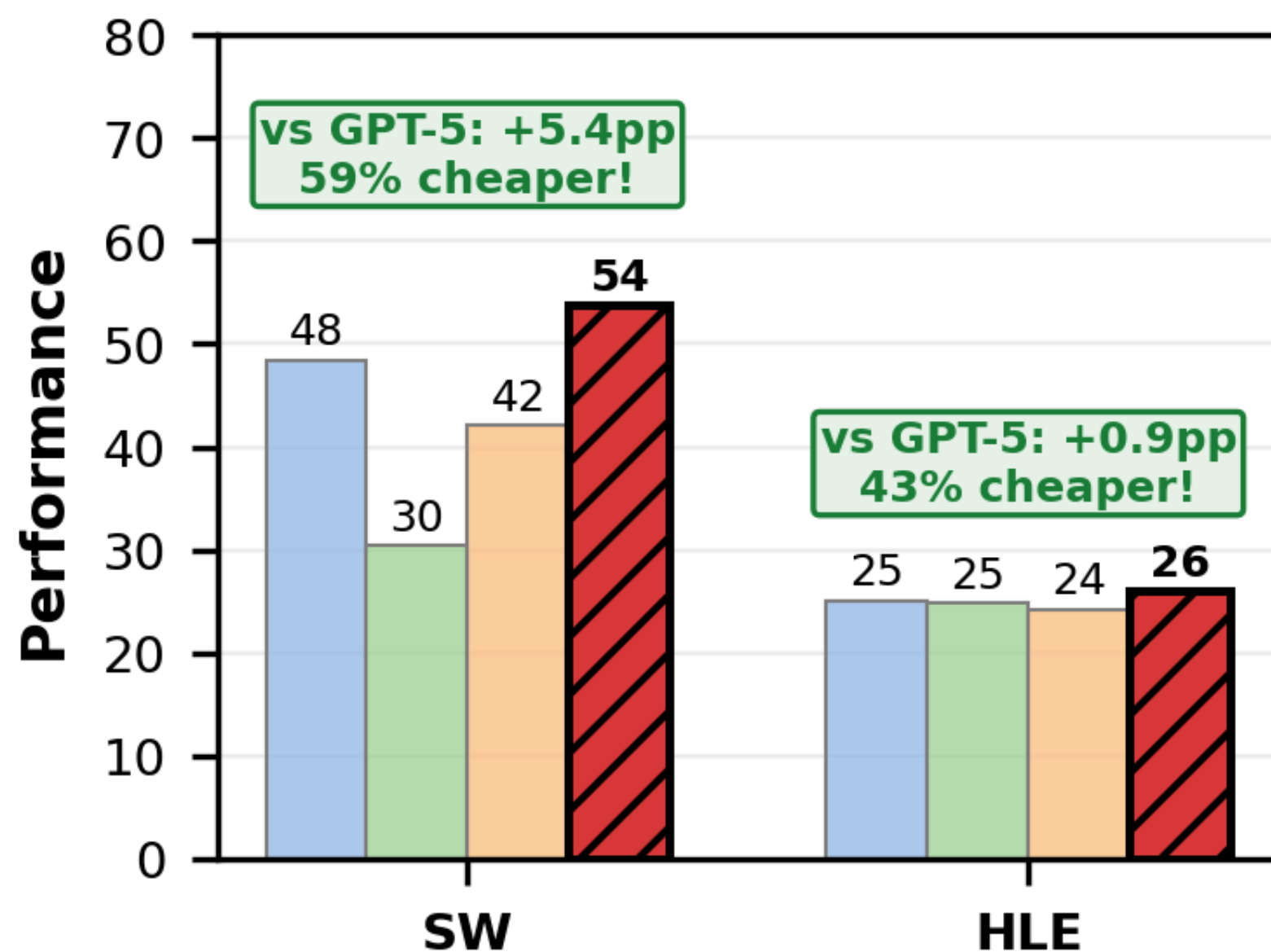
(a) single turn router

Early Turn (Exploration) ... Middle Turn (Tool Usage) ... Later Turn (Answer)

Router

⚠ Fixed Model   ⚠ Fixed Model   ⚠ Fixed Model

(b) multi turn router

Early Turn (Exploration)   Action / Observation   Middle Turn (Tool Usage)   Action / Observation   Later Turn (Answer)

Router   Router   Router

(c) VOLT comparison

vs GPT-5: +5.4pp 59% cheaper!

vs GPT-5: +0.9pp 43% cheaper!

Lower is better ↓

GPT-5   EmbedLLM   Router-R1   VOLT (Ours)