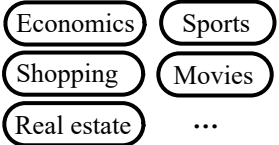
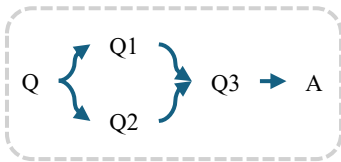


Domain Collection



Synthesize Multiple Q-A Pairs

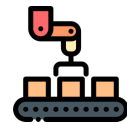


Trajectory Verification

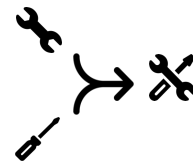


Completeness
Dependency
Atomicity
...

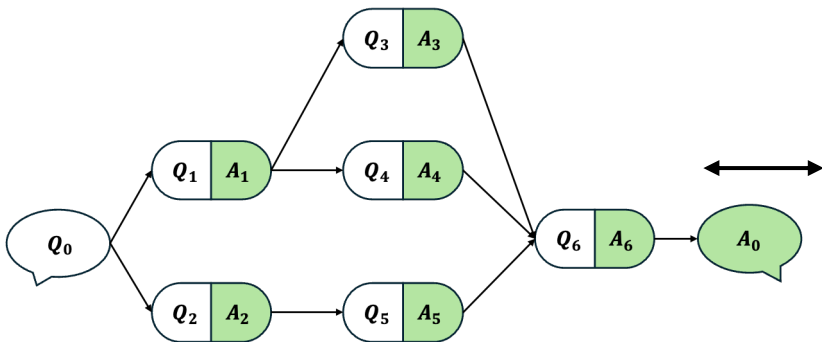
Env Synthesis



Env Merging



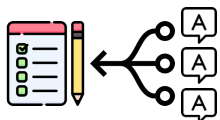
Multiple Q-A pairs



Q-A pairs DS

- Node 1
 - hop_level: 1
 - dependency: []
 - sub_q: "What is ..."
 - ...
- Node 2
 - hop_level: 1
 - dependency: []
 - sub_q: "What is ..."
 - ...
- ...
- Node 6
 - hop_level: 3
 - dependency: [3, 4, 5]
 - sub_q: "How to ..."
 - ...

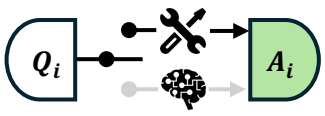
Verification



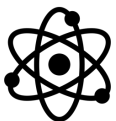
completeness



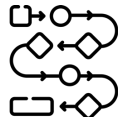
dependency



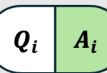
necessity



atomicity



rationality



Q-A pair

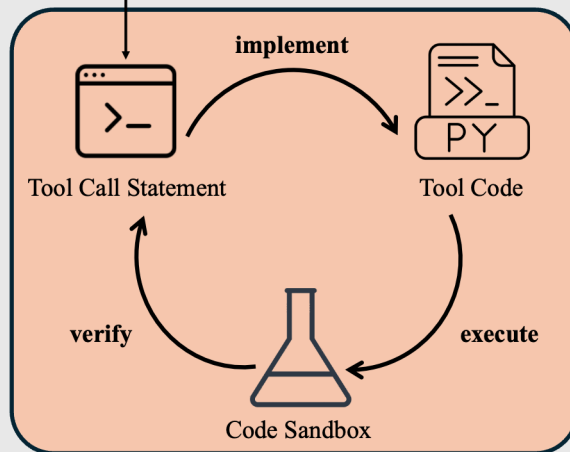


Tool Document

Complexity Scaling



Scaled Tool Document



Env_i

$\times N$