**Reasoning IO:**

Input:

{

"profile type prompt": <str>

"llms type": <list>,

"task description": <str>,

"feedback": <str>,

"tool instruction": <str>,

}

Output:

{reasoning result: <str>}

**Tool use IO:**

Input:

{

"llms type": <list>,

"task description": <str>,

"tool instruction": {"text": <str>, "image": <resource path> , "audio": <resource path>, "video": <resource path>},

"feedback of previous tools": <str>,

}

Output:

{

"call statement for the tool":<str>,

"choice reason":<str>

}

**Memory IO:**

Input:

{

"current situation": <str>

}

Output:

{

"updated memory": <list>/<dict>,

"retrieved knowledge": <str>

}

**Planning IO:**

Input:

{"task type": <str>,

"task description": <str>,

"feedback": <str>

}

Output:

{

"sub-tasks": [{"sub-task description": <str>, "reasoning instruction/config": <dict>, "tool use instruction/config": <dict>}, {"sub-task description": <str>, "reasoning instruction/config": <dict>, "tool use instruction/config": <dict>}, …]}

} #[Subtask description, inference instructions required to complete the subtask, and tool call instructions required to complete the subtask]