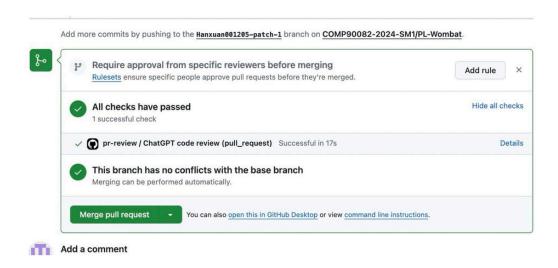
Code Review Manually

Notice: This is an empty template. Once the pull request is submitted, the AI Code reviewer works, but nothing is automatic replied. This part will be complete after the problem is fixed.

Now that we have resolved the issue with the auto code review, we will no longer use manual code review.



As the figure shows above, our code review is without automatic reply.

We have made some attempts, but have not been helpful. In the Ed discussion, some other groups have encountered the same issue as us. Their approach "issue has been solved without specifying any model or files" didn't work for us either. We tried restricting the files and models, but the result was the same. Even when we specified individual files for review, there was still no reply. Therefore, we have decided to proceed with manual ChatGPT code reviews until we resolve the issues with the automatic code review.

Our GitHub action code is shown below:

```
Code
        Blame 16 lines (16 loc) · 427 Bytes
                                                   8 Your organization can pay for GitHub Copilot
   1
         name: pr-review
   2
   3
          pull_request:
   4
             types: [opened, synchronize]
   5
         iobs:
   6
           review:
   7
             name: ChatGPT code review
   8
             runs-on: ubuntu-latest
   9
             steps:
               - name: PR ChatGPT Review
  10
  11
                 uses: agogear/chatgpt-pr-review@0.0.2
  12
                 with:
  13
                   openai_api_key: ${{ secrets.OPENAI_API_KEY }}
                   github_token: ${{ secrets.GITHUB_TOKEN }}
  15
                   github_pr_id: ${{ github.event.number }}
  16
                   files: "*.py"
```

We conduct a manual ChatGPT review using the following instructions:

User

I will upload some files one by one, please follow the instruction to review them: Documentation Defects: a. Naming: Assess the quality of

software element names. b. Comment: Analyze the quality and accuracy of code comments.

Visual Representation Defects: a. Bracket Usage: Identify any issues with incorrect or missing brackets. b. Indentation: Check for incorrect indentation that affects readability. c. Long Line: Point out any long code statements that hinder readability.

Structure Defects: a. Dead Code: Find any code statements that serve no meaningful purpose. b. Duplication: Identify duplicate code statements that can be refactored.

New Functionality: a. Use Standard Method: Determine if a standardized approach should be used for single-purpose code statements.

Resource Defects: a. Variable Initialization: Identify variables that are uninitialized or incorrectly initialized. b. Memory Management: Evaluate the program's memory usage and management.

Check Defects: a. Check User Input: Analyze the validity of user input and its handling.

Interface Defects: a. Parameter: Detect incorrect or missing parameters when calling functions or libraries.

Logic Defects: a. Compute: Identify incorrect logic during system execution. b. Performance: Evaluate the efficiency of the algorithm used.

Provide your feedback in a numbered list for each category. At the end of your answer, summarize the recommended changes to improve the quality of the code provided.

Following the instructions (based on ED discussion) above, we conduct a manual code review of the PDDL files in the AnimationProfiles folder and document the review results below:

driverlogDomain.pddl

1. Documentation Defects
a. Naming: The naming of predicates and parameters seems to be generally clear and related to the domain of a driver log system (e.g., TRUCK, DRIVER, LOCATION, However, more descriptor names could be used for variables like Tool), which is not self-explanatory.

In explanatory to a propose or comments present in the provided shipper. Adding comments to explain the purpose of actions and predicates would enhance maintainability and readability.

2. Visual Representation Defects
a. Bracket Usage: Brackets seem to be used correctly to define scopes of actions and predicates.
b. Indentation: Indentation is inconsistent, particularly within action definitions and predicate lists. Proper and consistent indentation would improve readability.
c. Long Line: Some action parameter lines are long and wrap awkwardly. Breaking these into multiple lines could all areadability.
3. Structure Defects
a. Dead Code: No dead code is apparent in the snippet provided.
b. Duplication: No obvious duplication within this limited scope, but broader review is necessary to confirm.
4. New Functionality
a. Uses Stendard Method: The actions use a standard structured method appropriate for PDDL. The effectiveness depends on the specific goals and environment setup, which are action and action of the specific goals and environment setup, which are actions and actions are appropriately initialized through parameters and presconditions.
b. Memory Management: As PDDL does not manage memory in the conventional sense (esia) a planning domain description language), this isn't applicable.
6. Check Defects
a. Parameter: Parameters are used correctly within actions. However, clarity could be improved by ensuring that each parameter's purpose and rice are understandable from its naming.
8. Logic Defects
a. Compute: From the actions presented, logical structure follows typical planning orients problems and effects logically correspond with its intended operation.

Summary of Recommendations are interested to explain each predicate and action clearly. Enhance Readability: Standardox indernation and avoid long times to make the script control Readability: Standardox indernation and avoid long times to make the script script Readability: Literature of the Readability of the Readability of the Readability of the Readability of the most descriptive variable names, especially where the purpose inn't immediately clear (e.g., 7de)1).

driverlog_pfile1.pddl

- 1. Documentation Defects
 a. Naming: The names used for objects such as driver1, fruck1, package1, etc., are clear and inclass their roles within the logistics domain. Locations labeled as \$0, \$1, etc., are somewhat ambiguous and could benefit from more describer varies.
 b. Comment: The file lacks comments, including comments explaining the purpose of becefic objects, intil cardistions, and goal configurations would enhance understanding and maintanability.
 2. Visual Representation Defects
 a. Bracket Usage: Brackets are correctly used to delineate different sections such as objects, intil eatly, and goals.

- a. Bracket Usage: Brackets are connectly used to delineate different sections such as objects, initial state, and poals.
 b. Indentation: Indentation is somewhat consistent, which helps in distinguishing between different sections. However, some lines could benefit from better alignment for improved readability.
 C. Long Line: The lines are generally well-formatted and do not extend excessively, adding readability.
 S. Structure Defects
 a. Dead Code: There is no apparent dead code in the initial state or goal definitions provided.
 b. Duplication 1N obvious duplication is visible in the problem definition.

 1. Duplications of the problem definition.

- b. Dobliscandt: No Common opposition in vision in the proceed interminds.
 4. New Functional V4. New Functional V4.
 a. Use Standard Method: The problem file adheres to standard PDDL methodologies for defining objects, full states, and goals, which is appropriate for the planning system it is intended for.
 5. Resource Defects
- s. Nesdurce benects s. Variable Initialization: All objects and their states are correctly initialized in the :init

- a. Variance instanzance, As objects and their states are convectly installized in the :int section.
 b. Memory Management: Not applicable for PDDL.
 6. Check Defects
 a. Check Live Input. Not applicable for PDDL as user input is not directly handled in the problem files.
- problem files. 7. Interface Defects
- 7. Interface Defects
 A. Parameter. Parameters are not directly applicable in this context, but the object declarations and their usage in goals and initial states are correct and consistent with the domain definition.

 8. Logic Defects
 A. Compute: The logical setup of the initial conditions and goals appears correct based on standard planning problem formulations.
 b. Performance in terms of planning efficiency cannot be determined from the problem file above without executing the plan with a PDOL solver.
 Summary of Recommendations:
 Enhance Documentation: Introduce comments to explain the setup of the problem file, especially the purpose behind specific configurations of objects and goals.

lines to avoid horizontal scrolling and enhance code comprehensibility.

Clarify Naming: Some names like dummypoint might benefit from re-evaluation to convey their purpose more clearly or accurately.

Refine Naming: Use more descriptive names for locations to improve clarity (e.g., instead of s0, names could reflect geographic or functional attributes).

Ensure Consistency in Formatting: Align elements more uniformly within lists for better visual inspection and readability.

- navabe/Doman, podf

 1. Documentation Defects
 a. Naming: The naming convention in this file, such as talkinake, headsnake, nextanake, is clear and specifically tailored to the domain of a snake game. However, names like durreypoint might need more contest or a more descriptive identifier.
 b. Comment: The use of semicions for comments is present, explaining the purpose of each predicties susciently. This is good practice, but more comprehensive comments explaining complex actions could further enhance clarity.
 b. Visual Representation Defects
 a. Bracket Usage: The usage of brackets to define actions and predicties is correct and clearly demarcates different sections of the logic.
 b. Indentation: Indentation appears consistent throughout, idding readability significantly.
 c. Long Line: Some lines, especially within action definitions, are quite long and contain complex conditions. Breaking these into multiple lines could improve readability.
 3. Structure Defects
 a. Dead Code: No apparent dead code in the provided snippet.
 b. Duplication: The structure seems efficient with no obvious duplication of logic or definitions.

 4. New Functionality

- definition.

 A. New Functionality
 a. Use Standard Method: The actions defined appear to follow a standard
 methodological approach suitable for PDDL, tocusing on movement and interaction
 within a girl-based strakes
 a. Variable Initialization: All variables used in actions are properly initialized through
 parameters and confolitions.
 b. Memory Management: As with other PDDL files, memory management is not
 applicable hore.

- applicable here.
 6. Check Defects
 a. Check User Input. No applicable in PDDL as it does not handle user input directly,
 7. Interface Defects
 a. Parameter: Parameters are well-defined and correctly used in actions, aligning with
 their respective proclase for movement and game state manipulation.
 8. Logic Defects
 a. Compute. The logic for moving the snake and handling game events (like eating or
 moving without eating) is coherent and should function correctly within a planning
 environment.
- environment.

 b. Performance: Efficient from a logical standpoint; however, performance metrics would depend on the planner's ability to exocute these actions efficiently in the context of a game simulation.

 Summary of Recommendations:
 Expand Documentation: While basic comments are present, more detailed descriptions of complex actions and their intended effects would be beneficial.

 Refine Visual Representation: Consider breaking longer logical expressions into multiple

snakeProblem01.pddl

- analerProblem01.pdd

 1. Documentation Defects
 a. Amming: The naming of positions like posit-0, posit-1, etc., clearly indicates a gird-based coordinate system, which is appropriate for a snake game problem definition. These names are logical and help in internationally the grid legoud.
 b. Comment: The provided anjoyel lacks comments. Adding comments that describe the purpose of the setup and the neliationing seatablanks, the adjacency, could greatly enhance readability and comprehension for new readers.
 2. Vesual Representation Defects
 a. Bracket Usage: Brackets are used correctly to separate different sections, such as domain, objects, and initial conditions.
 b. Indentation: Indentation is consistent, helping to separate predicates clearly, which makes in readability.
 c. Long Line: The adjacency relationships are listed in a lengthy, somewhat repetitive manner. While necessary for the domain, treaking these into more visually digestible segments could improve seaso of reading.
 3. Structure Defects
 a. Dead Code: There is no apparent dead code within the initial conditions show.
 b. Duptication: The structure severe supportative without unrecessary duplication, though the repetitive manuse of the structure severe supportative without unrecessary duplication, though the repetitive native of the structure severe supportative without unrecessary duplication, though the repetitive native of the structure severe supportative without unrecessary duplication, though the repetitive native of the structure severe supportative without unrecessary duplication, though the repetitive native of the structure severe supportative without unrecessary duplication, though the repetitive native of the structure severe supportative without unrecessary duplication, though the repetitive native of the structure severe supportative without unrecessary duplication, though the repetitive native of the structure severe supportative without unrecessary duplication, though the repetitive native of the structure severe supportative without un

- the initial conditions.

 b. Memory Management: Not applicable for PDDL files.

 6. Check. Defects

 a. Check. User Input: Not applicable as PDDL does not handle user input directly.

 7. Interface Defects

 a. Parameter: Parameters are not directly used in this section, but object declarations are correct and consistent with the domain definitions.

- correct and consistent with the domain definitions. As Logic Defects.

 a. Compute: The logical relations for adjacency are well-defined and necessary for the functioning of a stake game within a planner. Each adjacency defines potential moves, essential for planning paths.

 b. Performance: The performance of the logic will depend on the planner's efficiency in handing these definitions, particularly the number of possible states generated by these adjacency relations.

 Summary of Recommendations:

 Summary of Recommendations:

 Expand Documentation: Include more comprehensive comments to describe the structure and purpose of the problem setup, especially explaining complex sections like adjacency relations.

snakeAP.pddl

- Locumentation Defects
 a. Naming: The naming of predicates and visual elements like snake-head and snake-tail clearly reflect their roles within the game's animation context. These names are intuitive for understanding being purpose in valual effects.
 b. Comment: The file includes comments explaining the overall purpose and the specific role of each saction. This is an excellent practice that enhances readability and understanding.
 2. Visual Representation Defects
 a. Bracket Usage: Brackets are properly used to define and segregate different sections and definitions.

- a. Bracket Usage: Brackets are properly used to define and segregate different sections and definitions.
 b. Inderstation: The file shows consistent inderstation, which helps in navigating through various definitions and enhances the residability of the file.
 c. Long Line: The formatting does not present any overly long lines, and the use of line breaks is appropriate, contributing positively to restability.
 3. Structure Defects.

- breaks is appropriate, contributing postavely to readability.

 3. Dead Code: There is no apparent dead code in the snippet provided.

 5. Deplication: The situature avoid surrecessary displication, with each predicate and visual seminations of the structure and surrecessary displication, with each predicate and visual seminations and the structure of the structure approach suitable for defining visual animations in a PDDL like syntax. This includes custom properties and effects linked to the game's visual representation.

 5. Resource Defects

 A visitable Initialization: Variables are well initialized, with parameters and properties clearly defined within visual and predicate elements.

 6. Check Defects

 7. Interface Defects

 8. Parameter: Parameters for predicates and visuals are correctly specified and consistently used, providing clear information on their roles.

- consistently used, providing clear information on their roles.

 8. Logic Defect.

 a. Compute: The logical activature supports the visual and interaction dynamics of the Snake game effectively. It integrates visual cases with game mechanics.
 b. Performance: The definitions are logically coherent; however, performance in terms of visualization vould depend on the implementation details in the arimation engine. Summary of Recommendation:
 Summary of Recommendation:
 Maritan Documentation Quality: The current use of comments and explanations is very beneficial. Continuing this practice will ensure the file remains accessible and understandable.

 Monitor Yould Properties: Keep an eye on how visual properties (like color, width, height) are assigned to ensure they slight with the interacted asethetic and functional aspects of

Enhance Readability: Consider formatting improvements for lists of relations to avoid visual repetition and enhance clarity. Refine Data Presentation: While the naming and structure are logical, presenting adjacency in a more compact or grouped form could simplify understanding the grid

- 1. Documentation Defects
- 1. Documentation Defects
 A. Nominy: The manes used in the file such as car, location, at-ferny, sail, board, and debark are clear and relevant to the domain of ferry transportation, effectively describing the entities and actions within the system.
 b. Comment: The file lacks comments. Including comments explaining the purpose and functionality of actions and predicates would reprove understanding and maintainability, especially for those unfamiliar with the domain.
 2. Visual Representation Defects
 a. Bracket Usage: Brackets are connectly used to define and separate predicates and actions, which helps maintain structure clarity.
 b. Indentation: Indentation is generally consistent, ading in the readability of action definition and condition.

- definitions and conditions.
 c. Long Line: The lines are not excessively long and are broken appropriately to enhance

- c. Long Line: The lines are not excessively long and are broken appropriately to enhance readability.

 3. Structure Defects
 a. Dead Code: There is no apparent dead code in the snippet provided.

 b. Duplication: The structure seems efficient with each predicate and action serving a distinct purpose without unnecessary deplication.

 4. New Functionality
 a. Use Standard Method: The actions defined follow standard PDDL methodologies for describing planning tasks, suitable for the context of fenry transport, including actions for saling, busning, and debasting.

 a. Variable Initialization: Variables within actions are appropriately initialized through parameters and preconditions.

 b. Memory Management: Not applicable for PDDL.

 6. Check: Defects

 a. Check: User input: Not applicable as PDDL doesn' t directly handle user input.

 7. Interface Defects.

- Interface Defects
 a. Parameter: Parameters are used effectively within actions, and their roles are clearly defined through preconditions and effects, ensuring that the ferry, locations, and cars interact correctly.
- 8. Logic Defects
 a. Compute: The logical constraints and action effects are appropriately defined to reflect
- a. Colliquer, in edigate consistence and extension in extension and extension of the real-world operations of a flerry system and extension of the real-world operation of the performance. The performance is consistency of the domain would depend on the specific scenarios and planner used but is desligated to be straightforward and effective.

 Summany of Decommendation:

 Summany of Decommendation:

 Include commentation: Include comments to explain each predicate and action,
- providing context and clarifying their purposes.

 Ensure Consistency in Formatting: While generally good, ensuring that indentation and bracket usage are consistently applied throughout the file will improve maintainability.

ferryProblem.pddl

- In Documentation Defects
 a. Naming: The naming of locations (0, I1, etc.) and cars (c0, c1, etc.) is systematic and functional, which is suitable for a problem file where many similar entities need to be managed. However, more descriptive names could help to give context (e.g., indicating different regions or types of locations).

 Comment: The file lacks comments. Including comments to describe the setup, purpose of the problem, and especied interactions between entities (ferry, cars, locations) could greatly enhance understandability.

 2. Visual Representation Defects
 a. Bracket Usage: Brackets are used correctly to define and separate the sections and elements, such as objects, intitial state, and goal.

 5. Indentation: Indentation is mostly consistent, helping to differentiate between different sections and making the file easier to follow.

 6. Long Line: The representation of distinct not-eq predicates for location pairs, while necessary, results in a repetitive structure that might be visually cumbersome. Grouping related predicates or summarizing them could improve readability.

- necessary, results in a repetitive structure that might be visually or related predicates or summarizing them could improve readability
- 3. Structure Defects

- In Structure Defects an apparent dead code in the provided snippet.

 a. Dead Code: There is no apparent dead code in the provided snippet.

 b. Duplication: While the not-eq predicates are repetitive, they are essential for defining the problem constraints and ensuring correct problem setup.

 4. New Functionality

 a. Use Standard Method: The problem file uses a standard methodological approach for defining ferry logistics scenarios in PDDL, including initialization or entities and goal states.

 5. Resource Defects

 a. Variable Initialization: All variables are properly initialized in the initi section, specifying the locations of cars and the ferry as well as the states of these entities.

 b. Memory Management: Not applicable for PDDL.

 6. Check Defects

 a. Check User Input: Not applicable as PDDL does not handle user input.

 7. Interface Defects

 a. Parameter: Parameters are not used in this section, but the object declarations and their roles within the initial conditions and goals are clearly defined and appropriate.

 6. Logic Defects

- 8. Logic Defects
- 8. Logic Derects
 a. Compute: The logical setup of initial conditions and goals is sound, with clear relationships established between different locations and entities to facilitate ferry
- relationships established between amerient locations and ensures to somewhere poperations.

 b. Performance: The problem is defined efficiently with respect to the ferry's operational logic, although the effectiveness of solving this problem will depend on the planner's capability to handle the constraints and objectives efficiently.

 Summary of Recommendations:
 Improve Documentation: It would be beneficial to include comments explaining the logic

Review Logic and Conditions: While the logic seems sound, always ensure that conditions like (not-eq ?from ?to) are robust and consider edge cases or unusual scenarios that may occur in real-world ferry operations.

behird intall states and goal configurations.

Refine Visual Representation: Consider optimizing how predicates are presented to reduce visual representation consider optimizing how predicates are presented to reduce visual representation and improve seaso of understanding.

Clarify Goals: Ensure that the posits are aligned with resistict operational constraints and scenarios, providing clear and achievable objectives for the planning system.

ferryAP.pddl

- 1. Documentation Defects
 a. Naming: The naming within the file, such as location, at-ferry, and on, clearly corresponds to the logical constructs of the ferry domain and helps in understanding their roles within the visual context.
 b. Comment: The file includes minimal comments. It would be beneficial to include more detailed explanations, especially describing the effects and the purpose of the custom visuals to enhance calify for someone unfamiliar with the visual scene calify for someone unfamiliar with the \$2.0 Visual Representation Defects
 a. Bracket Vlasge Erackets are properly utilized to clearly delineate predicates, actions, and visual elements, which aids in maintaining the structure of the document.
 b. Indestation: Indestation is consistent and effectively separates different elements and sections, improving the filer anadability.
 c. Long Line: The visual properties are defined in a way that avoids overly long lines, making it easier to read and understand the setup for each visual element.
 3. Shoutcure Defects is no apparent dead code; each section contributes to defining how the ferry and related entities are visualized.
 b. Duplication: There is no supparent dead code; each section contributes to defining how the ferry and related entities are visualized.
 b. Duplication: There is no supparent dead code; each section contributes to defining how the ferry and related entities are visualized.
 b. Alver Function of a domain in PDLD, locasing on how elements like locations, ferries, and cars appear and interact visually.
 c. Resource Batchets
 a. Visual properties and effects are initialized with procise details, like positions and images, ensuring that every elements visual behavior is well-defined.
 b. Memony Management: Not applicable as PDDL files do not handle user input directly.
 c. Therefore Defects
 a. Check Defects
 b. Check Defects
 b. Check Defects
 b. Check Defects
 b. Glogical betters.
 c. Check Defects
 b. Glogical states.
 c. Compute: The logical definitions related to visual effects appear coherent,

dimensions the visualiza	, align wi ation syst	ith the em	intended	user e	experience	and t	the prac	tical re	quireme	nts of	