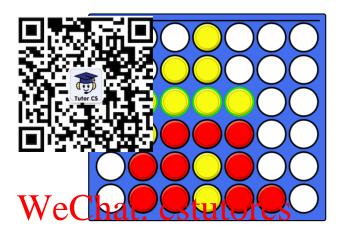
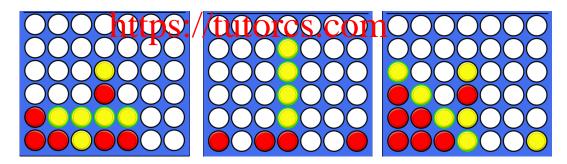
程序附肾代数203编程辅导



OVERVIEW Assignment Project Exam Help

In this assignment, you are bihard design and other loss applayed on ection load game, in which the players first choose a color called token and then take turns dropping the colored token into columns, and the first player who connects four tokens of same color before the other opponent does wins the game. The four connected tokens must be played in four consecutive positions in a row, be it horizontally, vertically or classificationally (left and right). The following 3 diagrams show 3 different winning connections (yellow tokens) in horizontal, vertical and diagonal positions respectively.



SCOPE 程序代写代做 CS编程辅导

1. Implement the fixed 8-column owing diagram shows the overall layout of the game:

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Assignment Project Examed of the game of the game of the game of the game of the game.

Connected Tokens

Email: tutors of the game board is a fixed 8-column owing diagram shows the overall layout of the game:

Mouse Pointer

Connected Tokens

Column Trackers

Placeholder

2. Status Bar https://tutorcs.com

- a. It's the standard title bar of the Turtle Graphics' Windows. Your program will use it to display a simple string to show the FINAL status of the game:
 - i. Winner! Player 1, or
 - ii. Winner! Player 2, or
 - iii. Game Tied!

Note: during the game you can simply display a default, static title such as "Connect 4", optionally including the player identifier, such as Connect 4 – Player 1 Turn, or Connect 4 – Player 2 Turn.

Hint: use title() from the Screen object to set the text string in the title bar.

3. Connected Tokens

a. At end of the game, if there is a winner, outline the 4 connected tokens with another different color (red as shown in the diagram above). Note that it's possible there are multiple winning rows such as the horizontal and diagonal rows in blue as shown in the following diagram. In this case, your program simply shows any one of the winning rows.



4. Colored Tokens



- a. Use standard shape such as circle or square to implement colored tokens and pick a different color for each player (explicit and purple as shown). Set both will the and height of the toke shape to 60 pixels. The default size in pixels for standard circle and square shapes is 20. Hint: for turtle object use function shapesize() to stretch the size accordingly.
- 5. Column Trackes mail: tutorcs@163.com
 - a. Show the clump positions of high pane board. Separate column trackers with small margin in between, including to the left side of the first column and to the right of last column (see diagram above). Match the width of each column tracker to the colored token's shape, and set the height of each column tracker to 20 pixels (default size).
- 6. Token Placehol 1. Token Pla



a. Based on the current position of the mouse pointer, outline the corresponding column tracker with the color that matches that of the current player. Set the width of the outline to around 5 pixels. Hint: for turtle object you could use color() to set the outline color and use shapesize() to set the width of the outline. See "Mouse Tracking" for more info.

7. Size & Colors

- a. You are free to choose your own set of colors (fill and outline combined) provided that different colors are consistently used for different components such as color tokens, column tracker, token placeholder, connected tokens and so on.
- b. Stick to the measurement (pixel size) suggested for tokens and column trackers, or choose a different measurement appropriately.
- 8. Token Dropping

- a. Mouse click is used to initiate the action of dropping a token to the currently outlined column taken placeholder of short market by the market by the taken from the top of the column. In other words, your program can instantly and directly display the token in the column at the correct position right after the mountain the column at the correct position right after
- 9. Mouse Tracki
 - a. You are the first the mouse pointer when it's hovered within the Turtle Graphics' window the first that the
 - b. Hint: u the canvas object to bind the mouse motion to a separate function. To get the canvas object use getcanvas() from the turtle module.
 - the tracking logic as mentioned above. See "Timer Screen Refresh" for more info.
- 10. Timer Screen Refresh Chat. CStutorCS
 - a. In general, if your logic relies on a timer to perform repeated computation at a regular interval ensure that the value of timer rate is set appropriately. For an example, if timer is negligible for the timer rate is set appropriately. For an example, if as 100 msec. If it's set to a higher timer rate, say 2 seconds (2000 msec), the outlined column position would not accurately match the mouse pointer's position when it's in ...

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NOTE:

- Keep your entire source code in ONE SINGLE file.
- Use only standard bython applies 894/6
- In your design stick ONLY to functions, in other words, no class objects of your own.

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STARTUP O程序形写代做 CS编程辅导

Not applicable

SKILLS



In this assignment, you so the followings:

- Logic Decomposition: Functions (with parameters and return) for program structure and logic decomposition (1) 21. Continuous conti
- GUI based programming turtle graphles SUULOTCS
 - o Event, Timer, Mouse Tracking, and so on.
- Standard objects (strings, numbers & lists)
- Variable Scope Assignment Project Exam Help

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DELIVERABL 停代写代做 CS编程辅导

Program source code (A2_School_StudentID_Source.py)

where School is SSE, S

and StudentID is your 9-digit student ID.

Submit the python file (submission)"

esponding assignment folder under "Assignment

For instances, a SME st

"119010001" will name the program as follows:

• A2_SME_119010001_Source.py:

5% will be deducted if file is incorrectly named!!!

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TIPS & HINTS

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- Beware of variable scope as you might keep a few variables as global such as puzzle
- Refer to python website for program styles and naming convention (PEP 8)
- Validate all inputs (if any) if incorregt input is detected the display a highest response and prompt the input again.
- Use Canvas to bind the motion of the mouse pointer to your program
 - The x,y coordinate is upper-left corner based (0,0) and window coordinate.
- Use separate time to indate the column tracker /
- Use regular turtle objects as tokens and column trackers.
- Use color() function to change the fill and outline colors of the turtle objects.
- Use ontimer() function to perform repeated computation at a regular time interval in msec.
- Use shapesize() fundtion to change the size of the turtle objects.
- Use setworldcoordinates() function to change the x-y coordinates of the lower left and upper right corners. All drawing follows world coordinate setting. Hint: best to keep the same resolution as the Turtle Graphics' Window (screen size).

SAMPLE OU即原代写代做 CS编程辅导



MARKING C程序队 写代做 CS编程辅导

• Coding Styles - ture including layout, comments, white spaces, naming convention, value of the convention of the conve

Design Docume

- Readability countries are well structured and easy-to-follow using functions to breakdown countries are projective an aller cleaner generalized functions are preferred over a function embracing a complex logic with nested conditions and sub-functions! In other words, a design with clean architecture with high readability is the predilection for the course objectives over efficiency. The logic in each functions fould be kept simple and short, and it should be designed to perform a single task and be generalized with parameters as needed.
- KISS approach Keep It Simple and Straightforward.
- Balance approach you are not required to come up a very optimized solution. However, take a balance between each lip indefice wit good to program to satisfit. Help

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ITEMS CITALITY	PERCENTAGICS	GEMING S.COM
CODING STYLES	15%-20%	0% IF PROGRAM DOESN'T RUN
USER INTERFACE	15%-20%	0% IF PROGRAM DOESN'T RUN
FUNCTION ALITY . 7	10 10 10 10 10 10 10 10 10 10 10 10 10 1	EFER TO SCOPE
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DUE DATE https://tutorcs.com

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