Introduction to Lab Snake Assignment Project Exam Help

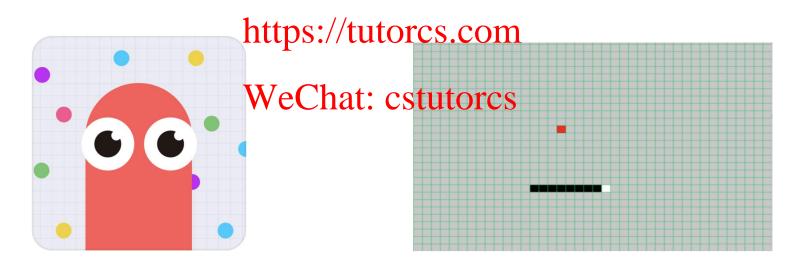
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Snake Games

Snake games available online

Very famous games gnment Project Exam Help



Our Snake Game is much simpler

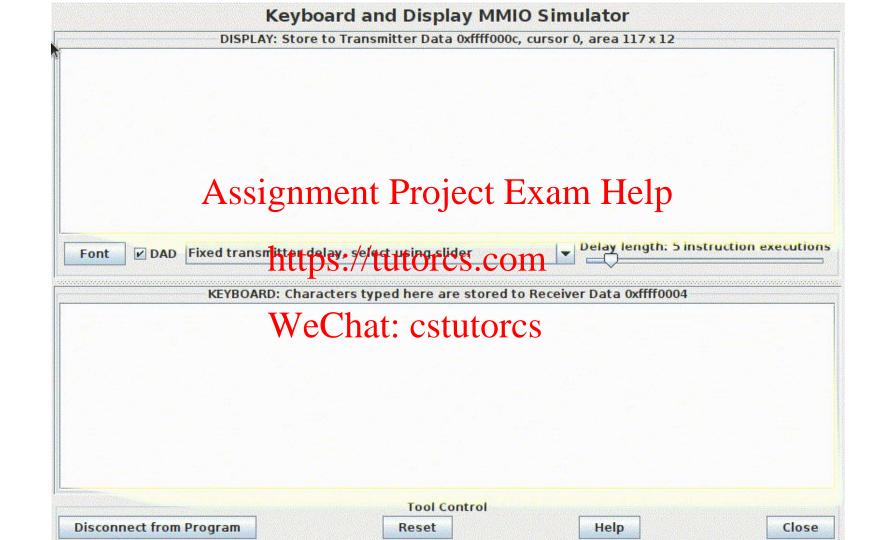
- We don't consider the situation when the snake hits its own body. The players just need to avoid this situation while playing this game.

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 After the snake eats the apple, the size of the snake body doesn't increase.

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Two Screens

- Preparation Screen:
- Reads the level of the game ent Project Exam Help Game Screen
 - Walls
 - https://tutorcs.com Apple
 - Snake
 - Number of points
 - Time remaining



Random Coordinate

The coordinate (rewneal) pf the applais rapportly generated.

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Wre heed catrated number generator.

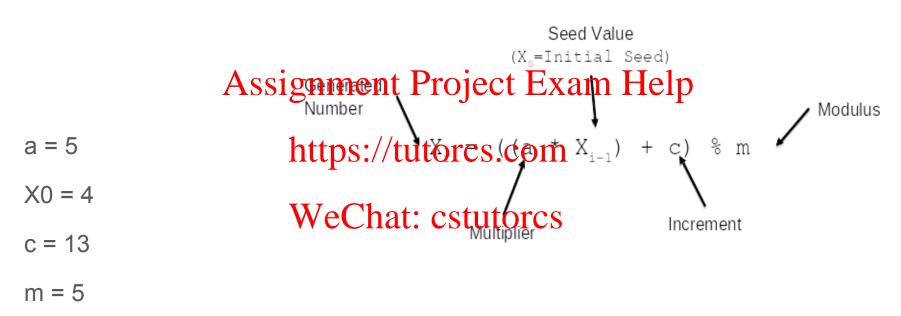
Linear Congruential Generator

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X_i WeChat: cstutorcs + c) % m

Linear Congruential Generator Example



$$X1 = ((5 * 4) + 13) \% 5 = 3$$

X2 = ((5*6) + 13) % 5 = ?

Exceptions/Interruptions

- Enable interrupts for both the timer and the keyboard
- Create an exception handler Project Exam Help

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Enable Interrupts

- Keyboard:
- Keyboard Control Bit 1 Must be 1 in order for the keyboard to be enabled
 Must be reenabled after every keyboard interrupt
 - Keyboard Data: Contains the ASCII character after a key is pressed
- https://tutorcs.com Timer:
 - Timer: Contains the current time
 - TimeCMP: User-specified value. When matched by the timer an interrupt is generated CSTUTORCS
- Interruption Control:
 - Ustatus register: bit 0 must be 1 in order for user interrupts to be allowed
 - Uie: Bits 4 and 8 must be 1 in order to enable keyboard and timer

Exception Handler

The snake.s already contains the Handler Terminate section

The common.s file Ansignation of the common.s file Ansignation of the common of the co

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Saving Registers

An interrupt handler must save all the registers that it uses.

- Assignment Project Exam Help
 The label iTrapData designates a section of memory allocated for saving registers in the handler https://tutorcs.com
 Outside of the handler, uscratch (CSR #64) should contain the address of the
- iTrapData section.
- Use the cssrw instruction to swap a register with the uscratch and save all the required registers.

Modified Forever Loop

