DEV-Dokumentáció Tánczos János - SNAKE **GWVABC** File tree: Main.c Lib/ Game/ game.c - game.h snake.c - snake.h Menu/ Menu.c - menu.h button.c - button.h rendering.c - rendering.h game.c -Game.h: /// Full game loop, handles everything from rendering and game logic /// @param renderer [in] constraints the SDL renderer enum WindowState StartGame(GameRenderer *renderer); snake.c - snake.h /// Direction enum Direction { UP, DOWN, LEFT, RIGHT /// A linked list as the snake typedef struct Snake { Vector2 bodyPart; struct Snake *next; } Snake; /// Creates the snake from scratch /// @param startPos the coordinates of the whole Snake /// @param length the initialization length if the Snake /// @returns A Snake struct what it self is a linked list /// @attention You have to Free the snake with the FreeSnake function Snake *CreateSnake(Vector2 startPos, int length); /// Moves the snake to the given direction /// @param snake the snake is Self /// @param nextDirection direction of the move bool MoveSnake(Snake *snake, enum Direction next); /// Returns the last body part's postion /// @param snake /// @returns true if the move can be done, and false if something is blocking the snake it

/// Frees the snake

Vector2 LastSnakeBody(Snake *snake);

self

```
/// @param snake
void FreeSnake(Snake *snake);
/// Expands the snake to the given direction
/// @param snake the snake is Self
/// @param nextDirection direction of the expansion
void ExpandSnake(Snake *snake, enum Direction nextDirection);
rendering.c - rendering.h
/// States of the app window
enum WindowState {
   GAME,
  MENU,
   SCORE BOARD,
   EXIt
};
/// Constraints everything what essential info tu rendering
typedef struct GameRenderer {
   SDL Renderer *renderer;
   enum WindowState state;
} GameRenderer;
/// A 2D vector with X and Y coordinates
typedef struct Vector2 {
   int x, y;
} Vector2;
/// Initialize the renderer this step makes the program graphical
/// @return a GameRenderer object what used in every other rendering specific task
GameRenderer InitGameRenderer();
Menu.c - menu.h
/// States of the app window
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   GAME,
  MENU,
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   EXIt
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```