routeplannerx

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Data Structure Documentation

3.1 coord Struct Reference

A coordinate struct. A structure to represent the coordinates of a point.

`#include <data.h>`

Data Fields

- int x
- int y

3.1.1 Detailed Description

A coordinate struct. A structure to represent the coordinates of a point.

Definition at line 11 of file data.h.

3.1.2 Field Documentation

3.1.2.1 int coord::x

The x-coordinate of the point.

Definition at line 12 of file data.h.

3.1.2.2 int coord::y

The y-coordinate of the point.

Definition at line 13 of file data.h.

The documentation for this struct was generated from the following file:

- src/data.h

3.2 Node Struct Reference

`#include <data.h>`

Data Fields

- char name [3]
- coord coords
- int checkpoint
- int mark
- int past
- struct Node * north
- struct Node * south
- struct Node * east
- struct Node * west

3.2.1 Detailed Description

Structure representing a node.

Definition at line 17 of file data.h.

3.2.2 Field Documentation

3.2.2.1 int Node::checkpoint

The number of the checkpoint the node is connected to. Is -1 when not connected.

Definition at line 20 of file data.h.

3.2.2.2 coord Node::coords

A coord to represent the coordinates of the node.

Definition at line 19 of file data.h.

3.2.2.3 struct Node* Node::east

Pointer to the eastern neighbour node.

Definition at line 25 of file data.h.

3.2.2.4 int Node::mark

Mark used by Lee algorithm.

Definition at line 21 of file data.h.

3.2.2.5 char Node::name[3]

The name of the node in the form "<x><y>", e.g. "03".

Definition at line 18 of file data.h.

3.2.2.6 struct Node* Node::north

Pointer to the northern neighbour node.

Definition at line 23 of file data.h.

3.2.2.7 int Node::past

Used by Lee algorithm: 0 means not yet visited, 1 means already visited.

Definition at line 22 of file data.h.

3.2.2.8 struct Node* Node::south

Pointer to the southern neighbour node.

Definition at line 24 of file data.h.

3.2.2.9 struct Node* Node::west

Pointer to the western neighbour node.

Definition at line 26 of file data.h.

The documentation for this struct was generated from the following file:

- src/data.h

Chapter 4

File Documentation

4.1 src/data.h File Reference

Header file to describe necessary data structures.

Data Structures

- struct coord

  A coordinate struct. A structure to represent the coordinates of a point.
- struct Node

Typedefs

- typedef struct Node node

4.1.1 Detailed Description

Header file to describe necessary data structures.

Definition in file data.h.

4.1.2 Typedef Documentation

4.1.2.1 typedef struct Node node

Structure representing a node.

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