API Project

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Chapter 1

Data Structure Index

1.1 Data Structures

Here are the data structures with brief descriptions:

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	Represents garbage collection data in the transportation system	6
Stazione		
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2 Data Structure Index

Chapter 2

File Index

2.1 File List

Here is a list of all files with brief descriptions:	
/home/admin/ProgettoApi/API_Tallarico.c	 13

File Index

Chapter 3

Data Structure Documentation

3.1 Route Struct Reference

Represents a route in the transportation network.

Collaboration diagram for Route:



Data Fields

long id

A long integer representing the unique route ID.

struct Route * next

Pointer to the next route node in the linked list.

3.1.1 Detailed Description

Represents a route in the transportation network.

This structure contains a unique identifier for the route ('id') and a pointer to the next route node in a linked list.

Definition at line 26 of file API_Tallarico.c.

3.1.2 Field Documentation

3.1.2.1 id

long Route::id

A long integer representing the unique route ID.

Definition at line 27 of file API_Tallarico.c.

3.1.2.2 next

```
struct Route* Route::next
```

Pointer to the next route node in the linked list.

Definition at line 28 of file API_Tallarico.c.

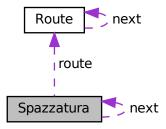
The documentation for this struct was generated from the following file:

• /home/admin/ProgettoApi/API_Tallarico.c

3.2 Spazzatura Struct Reference

Represents garbage collection data in the transportation system.

Collaboration diagram for Spazzatura:



Data Fields

Route * route

Pointer to the associated 'Route' structure.

• struct Spazzatura * next

Pointer to the next garbage node in the linked list.

3.2.1 Detailed Description

Represents garbage collection data in the transportation system.

This structure contains a pointer to a 'Route' and a pointer to the next garbage node in a linked list.

Definition at line 37 of file API_Tallarico.c.

3.2.2 Field Documentation

3.2.2.1 next

```
struct Spazzatura* Spazzatura::next
```

Pointer to the next garbage node in the linked list.

Definition at line 39 of file API_Tallarico.c.

3.2.2.2 route

```
Route* Spazzatura::route
```

Pointer to the associated 'Route' structure.

Definition at line 38 of file API_Tallarico.c.

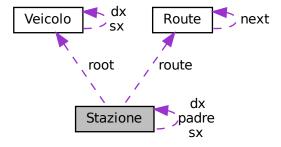
The documentation for this struct was generated from the following file:

• /home/admin/ProgettoApi/API_Tallarico.c

3.3 Stazione Struct Reference

Represents a station in the transportation network.

Collaboration diagram for Stazione:



Data Fields

· long id

long integer representing the unique station ID, indicating the distance in kilometers from the starting point of the road, starting from 0.

Veicolo * root

pointer to the root of a binary tree of 'Veicolo' structures.

struct Stazione * dx

pointer to the right child station node.

struct Stazione * sx

pointer to the left child station node.

struct Stazione * padre

pointer to the parent station node.

• Route * route

pointer to a 'Route' structure.

· long maxAutonomia

long integer representing the maximum vehicle range.

3.3.1 Detailed Description

Represents a station in the transportation network.

This structure contains information about the station, including its unique identifier, relationships with other stations, a binary tree of vehicles, and routing information.

Definition at line 49 of file API_Tallarico.c.

3.3.2 Field Documentation

3.3.2.1 dx

```
struct Stazione* Stazione::dx
```

pointer to the right child station node.

Definition at line 52 of file API_Tallarico.c.

3.3.2.2 id

```
long Stazione::id
```

long integer representing the unique station ID, indicating the distance in kilometers from the starting point of the road, starting from 0.

Definition at line 50 of file API_Tallarico.c.

3.3.2.3 maxAutonomia

```
long Stazione::maxAutonomia
```

long integer representing the maximum vehicle range.

Definition at line 56 of file API_Tallarico.c.

3.3.2.4 padre

```
struct Stazione* Stazione::padre
```

pointer to the parent station node.

Definition at line 54 of file API_Tallarico.c.

3.3.2.5 root

```
Veicolo* Stazione::root
```

pointer to the root of a binary tree of 'Veicolo' structures.

Definition at line 51 of file API_Tallarico.c.

3.3.2.6 route

```
Route* Stazione::route
```

pointer to a 'Route' structure.

Definition at line 55 of file API_Tallarico.c.

3.3.2.7 sx

```
struct Stazione* Stazione::sx
```

pointer to the left child station node.

Definition at line 53 of file API_Tallarico.c.

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

• /home/admin/ProgettoApi/API_Tallarico.c

3.4 Veicolo Struct Reference

Represents a vehicle in the transportation system.

Collaboration diagram for Veicolo:



Data Fields

• long autonomia

A long integer representing the vehicle's autonomy.

struct Veicolo * dx

Pointer to the right child vehicle node.

struct Veicolo * sx

Pointer to the left child vehicle node.

3.4.1 Detailed Description

Represents a vehicle in the transportation system.

This structure contains information about the vehicle's autonomy and pointers to its left and right children in a binary tree.

Definition at line 14 of file API_Tallarico.c.

3.4.2 Field Documentation

3.4.2.1 autonomia

long Veicolo::autonomia

A long integer representing the vehicle's autonomy.

Definition at line 15 of file API_Tallarico.c.

3.4.2.2 dx

```
struct Veicolo* Veicolo::dx
```

Pointer to the right child vehicle node.

Definition at line 16 of file API_Tallarico.c.

3.4.2.3 sx

```
struct Veicolo* Veicolo::sx
```

Pointer to the left child vehicle node.

Definition at line 17 of file API_Tallarico.c.

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

• /home/admin/ProgettoApi/API_Tallarico.c

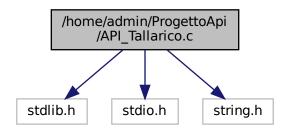
Chapter 4

File Documentation

4.1 /home/admin/ProgettoApi/API_Tallarico.c File Reference

```
#include <stdlib.h>
#include <stdio.h>
#include <string.h>
```

Include dependency graph for API_Tallarico.c:



Data Structures

• struct Veicolo

Represents a vehicle in the transportation system.

struct Route

Represents a route in the transportation network.

· struct Spazzatura

Represents garbage collection data in the transportation system.

• struct Stazione

Represents a station in the transportation network.

Macros

• #define MAX_RICHIESTA 19

Typedefs

· typedef struct Veicolo Veicolo

Represents a vehicle in the transportation system.

typedef struct Route Route

Represents a route in the transportation network.

• typedef struct Spazzatura Spazzatura

Represents garbage collection data in the transportation system.

· typedef struct Stazione Stazione

Represents a station in the transportation network.

Functions

• Veicolo * creaVeicolo (long autonomia)

Creates and initializes a 'Veicolo' structure.

Stazione * creaStazione (long id)

Creates and initializes a 'Stazione' structure.

Stazione * cercaStazione (Stazione *root, long id)

Searches for a station with a specific ID in a binary tree of stations.

• void inserisciVeicolo (Veicolo **root, long autonomia)

Inserts a vehicle into a binary tree of vehicles.

void inserisciStazione (Stazione **root, long id, Stazione *padre)

Inserts a station into a binary tree of stations in the appropriate position.

long eliminaVeicolo (Veicolo **root, long autonomia)

Removes a vehicle from a binary tree of vehicles based on its autonomy.

void eliminaTuttiVeicoli (Veicolo **root)

Deletes all vehicles in a binary tree of vehicles.

long eliminaStazione (Stazione **root, long id, long elimina)

Removes a station from a binary tree of stations based on its unique ID.

void ripulisciTutto (Stazione **root)

Recursively deletes all stations and their vehicles in the binary tree.

void stampaVeicoli (Veicolo *root)

Recursively prints the autonomy of all vehicles in the binary tree (Post-order).

void stampaTutto (Stazione *root)

Recursively prints the ID of each station and the autonomy of all its vehicles (Post-order).

Stazione * successiva (Stazione *curr)

Finds the in-order successor of a station in the binary tree.

Stazione * precedente (Stazione *curr)

Finds the in-order predecessor of a station in the binary tree.

Route * creaRoute (long id)

Creates a new route with the given ID.

• void aggiungiSpazzatura (Spazzatura **lista, Route *route)

Adds a new 'Spazzatura' node to the front of the list.

void svuotaSpazzatura (Spazzatura **lista)

Empties the 'Spazzatura' linked list.

• void stampaRoute (Route *lista)

Recursively prints the IDs of all routes in the list.

Route * salvaRoute (Route *route)

Creates a copy of the given 'Route' linked list.

 void segnatoreSottoAlberoCrescente (Stazione *maxPadre, long idPartenza, long minUltima, long maxId, Route *route, Stazione **ultimaVisitata, Spazzatura **listaSpazzatura)

Recursively searches for the best reachable station using binary tree properties.

Stazione * cercaMaxPadre (Stazione *maxPadre, long idPartenza, long maxId)

Searches for the last parent station reachable based on given ID limits.

void pianificaPercorsoCrescente (Stazione *stazionePartenza, long idArrivo)

Plans a route between ascending stations up to the arrival station.

void segnatoreSottoAlberoDecrescente (Stazione *minPadre, long idPartenza, long ultimaVisitata
 —
 Precedente, long minId, Route *route, Stazione **ultimaVisitata, Spazzatura **listaSpazzatura)

Recursively marks stations in a descending order binary tree and adds routes.

Stazione * cercaMinPadre (Stazione *minPadre, long idPartenza, long minId)

Finds the minimum parent station reachable from the starting station.

void pianificaPercorsoDecrescente (Stazione *stazionePartenza, long idArrivo)

Plans a descending route from the starting station to the destination.

long maxVeicolo (Veicolo *root)

Finds the maximum autonomy of vehicles in a binary tree.

• int main ()

Main function to manage the station and vehicle system.

4.1.1 Macro Definition Documentation

4.1.1.1 MAX_RICHIESTA

```
#define MAX_RICHIESTA 19
```

Definition at line 6 of file API_Tallarico.c.

4.1.2 Typedef Documentation

4.1.2.1 Route

```
typedef struct Route Route
```

Represents a route in the transportation network.

This structure contains a unique identifier for the route ('id') and a pointer to the next route node in a linked list.

4.1.2.2 Spazzatura

```
typedef struct Spazzatura Spazzatura
```

Represents garbage collection data in the transportation system.

This structure contains a pointer to a 'Route' and a pointer to the next garbage node in a linked list.

4.1.2.3 Stazione

```
typedef struct Stazione Stazione
```

Represents a station in the transportation network.

This structure contains information about the station, including its unique identifier, relationships with other stations, a binary tree of vehicles, and routing information.

4.1.2.4 Veicolo

```
typedef struct Veicolo Veicolo
```

Represents a vehicle in the transportation system.

This structure contains information about the vehicle's autonomy and pointers to its left and right children in a binary tree.

4.1.3 Function Documentation

4.1.3.1 aggiungiSpazzatura()

Adds a new 'Spazzatura' node to the front of the list.

Parameters

lista	A pointer to the head of the 'Spazzatura' linked list.
route	A pointer to the 'Route' to be added.

Definition at line 503 of file API_Tallarico.c.

Here is the caller graph for this function:



4.1.3.2 cercaMaxPadre()

Searches for the last parent station reachable based on given ID limits.

Parameters

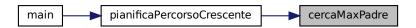
maxPadre	The current station from which the search begins.
idPartenza	The starting station ID.
maxld	The maximum allowed station ID for the search.

Returns

Returns the largest reachable station within the specified ID range.

Definition at line 607 of file API_Tallarico.c.

Here is the caller graph for this function:



4.1.3.3 cercaMinPadre()

Finds the minimum parent station reachable from the starting station.

Parameters

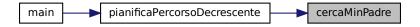
minPadre	The current station to inspect.
startId	The starting station ID.
minId	The minimum station ID to consider.

Returns

Pointer to the minimum parent station, or NULL if not found.

Definition at line 710 of file API_Tallarico.c.

Here is the caller graph for this function:



4.1.3.4 cercaStazione()

Searches for a station with a specific ID in a binary tree of stations.

Parameters

root	Pointer to the root of the binary tree of 'Stazione'.
id	The unique identifier of the station to search for.

Returns

A pointer to the 'Stazione' with the specified ID, or NULL if not found.

Definition at line 100 of file API_Tallarico.c.

Here is the caller graph for this function:



4.1.3.5 creaRoute()

Creates a new route with the given ID.

Parameters

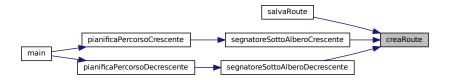
id The unique identifier for the route.

Returns

A pointer to the newly created 'Route' structure.

Definition at line 490 of file API_Tallarico.c.

Here is the caller graph for this function:



4.1.3.6 creaStazione()

Creates and initializes a 'Stazione' structure.

Parameters

id The unique identifier for the station.

Returns

A pointer to the newly created 'Stazione' structure.

Definition at line 80 of file API_Tallarico.c.

Here is the caller graph for this function:



4.1.3.7 creaVeicolo()

Creates and initializes a 'Veicolo' structure.

Parameters

autonomia	The autonomy value to be assigned to the vehicle.
-----------	---

Returns

A pointer to the newly created 'Veicolo' structure.

Definition at line 65 of file API_Tallarico.c.

Here is the caller graph for this function:



4.1.3.8 eliminaStazione()

Removes a station from a binary tree of stations based on its unique ID.

Parameters

root A pointer to the pointer of the root node of the binary tree of 'Stazione'.	
id	The unique identifier of the station to be removed.
elimina	A flag indicating whether to delete all vehicles associated with the station (1) or not (0).

Returns

The unique ID of the removed station, or 0 if the station is not found.

Definition at line 285 of file API_Tallarico.c.

Here is the call graph for this function:



Here is the caller graph for this function:



4.1.3.9 eliminaTuttiVeicoli()

Deletes all vehicles in a binary tree of vehicles.

Parameters

root A pointer to the pointer of the root node of the binary tree of 'Veicolo'.

Definition at line 266 of file API_Tallarico.c.

Here is the caller graph for this function:



4.1.3.10 eliminaVeicolo()

Removes a vehicle from a binary tree of vehicles based on its autonomy.

Parameters

root	A pointer to the pointer of the root node of the binary tree of 'Veicolo'.
autonomia	The autonomy value of the vehicle to be removed.

Returns

The autonomy of the removed vehicle, or -1 if the vehicle is not found.

Definition at line 180 of file API_Tallarico.c.

Here is the caller graph for this function:



4.1.3.11 inserisciStazione()

Inserts a station into a binary tree of stations in the appropriate position.

Parameters

root	A pointer to the pointer of the root node of the binary tree of 'Stazione'.
id	The unique identifier of the station to be inserted.
padre	A pointer to the parent station of the new station being inserted.

Definition at line 157 of file API_Tallarico.c.

Here is the call graph for this function:



Here is the caller graph for this function:



4.1.3.12 inserisciVeicolo()

Inserts a vehicle into a binary tree of vehicles.

Parameters

root	A pointer to the pointer of the root node of the binary tree of 'Veicolo'.
autonomia	The autonomy value of the vehicle to be inserted.

Definition at line 136 of file API_Tallarico.c.

Here is the call graph for this function:



Here is the caller graph for this function:



4.1.3.13 main()

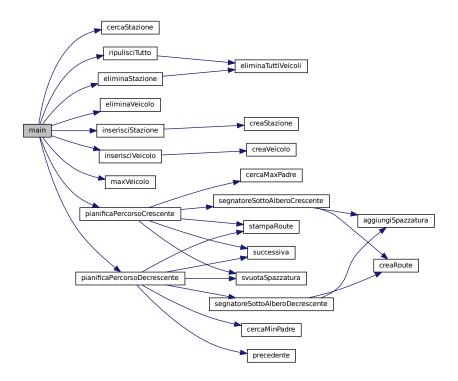
int main ()

Main function to manage the station and vehicle system.

Reads commands from input, manages stations and vehicles, and plans routes. Commands include adding/removing stations and vehicles, and planning routes.

Definition at line 823 of file API_Tallarico.c.

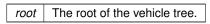
Here is the call graph for this function:



4.1.3.14 maxVeicolo()

Finds the maximum autonomy of vehicles in a binary tree.

Parameters

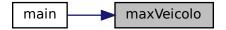


Returns

The maximum autonomy value, or 0 if the tree is empty.

Definition at line 805 of file API_Tallarico.c.

Here is the caller graph for this function:



4.1.3.15 pianificaPercorsoCrescente()

Plans a route between ascending stations up to the arrival station.

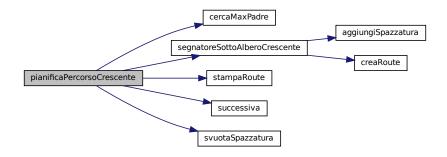
Uses a binary tree to search for stations with ascending IDs and update the route.

Parameters

startingStation	The starting station.
arrivalld	The ID of the arrival station.

Definition at line 627 of file API_Tallarico.c.

Here is the call graph for this function:



Here is the caller graph for this function:



4.1.3.16 pianificaPercorsoDecrescente()

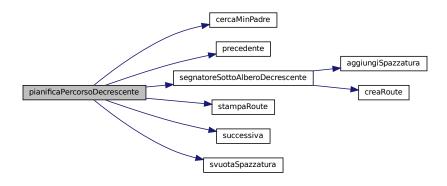
Plans a descending route from the starting station to the destination.

Parameters

startStation	The starting station for the route.
arrivalld	The ID of the destination station.

Definition at line 728 of file API_Tallarico.c.

Here is the call graph for this function:



Here is the caller graph for this function:



4.1.3.17 precedente()

Finds the in-order predecessor of a station in the binary tree.

Parameters

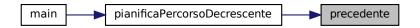
curr A pointer to the current 'Stazione' node.

Returns

A pointer to the in-order predecessor, or NULL if none exists.

Definition at line 462 of file API_Tallarico.c.

Here is the caller graph for this function:



4.1.3.18 ripulisciTutto()

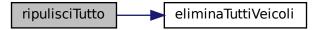
Recursively deletes all stations and their vehicles in the binary tree.

Parameters

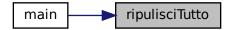
root A pointer to the pointer of the root node of the binary tree of 'Stazione'.

Definition at line 390 of file API_Tallarico.c.

Here is the call graph for this function:



Here is the caller graph for this function:



4.1.3.19 salvaRoute()

Creates a copy of the given 'Route' linked list.

Parameters

route A pointer to the head of the original 'Route' list.

Returns

A pointer to the head of the new copied 'Route' list.

Definition at line 546 of file API_Tallarico.c.

Here is the call graph for this function:



4.1.3.20 segnatoreSottoAlberoCrescente()

```
void segnatoreSottoAlberoCrescente (
    Stazione * maxPadre,
    long idPartenza,
    long minUltima,
    long maxId,
    Route * route,
    Stazione ** ultimaVisitata,
    Spazzatura ** listaSpazzatura )
```

Recursively searches for the best reachable station using binary tree properties.

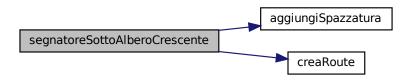
Marks the stations within ID limits, adds a route, and updates the last visited station.

Parameters

maxPadre	Pointer to the current station being inspected.	
idPartenza	Starting station ID.	
minUltima	Minimum ID of the last visited station.	
maxld	Maximum reachable station ID.	
route	Pointer to the current route.	
ultimaVisitata	Pointer to the last visited station.	
listaSpazzatura	Pointer to the garbage list for storing routes to be freed.	

Definition at line 573 of file API_Tallarico.c.

Here is the call graph for this function:



Here is the caller graph for this function:



4.1.3.21 segnatoreSottoAlberoDecrescente()

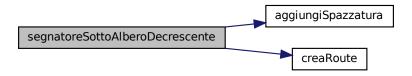
Recursively marks stations in a descending order binary tree and adds routes.

Parameters

minPadre	The current station to inspect.	
startId	The starting station ID.	
previous <i>⊷</i> VisitedId	The ID of the last visited station.	
minId	The minimum station ID to consider.	
route	The current route being constructed.	
lastVisited	A pointer to the last visited station.	
trashList	A pointer to the list of marked routes.	

Definition at line 678 of file API_Tallarico.c.

Here is the call graph for this function:



Here is the caller graph for this function:



4.1.3.22 stampaRoute()

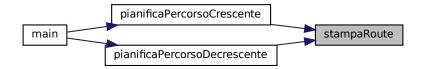
Recursively prints the IDs of all routes in the list.

Parameters

lista A pointer to the head of the 'Route' linked list.

Definition at line 532 of file API_Tallarico.c.

Here is the caller graph for this function:



4.1.3.23 stampaTutto()

Recursively prints the ID of each station and the autonomy of all its vehicles (Post-order).

Parameters

root A pointer to the root node of the binary tree of 'Stazione'.

Definition at line 419 of file API_Tallarico.c.

Here is the call graph for this function:



4.1.3.24 stampaVeicoli()

Recursively prints the autonomy of all vehicles in the binary tree (Post-order).

Parameters

root A pointer to the root node of the binary tree of 'Veicolo'.

Definition at line 406 of file API_Tallarico.c.

Here is the caller graph for this function:



4.1.3.25 successiva()

```
Stazione* successiva ( {\tt Stazione} \ * \ curr \ )
```

Finds the in-order successor of a station in the binary tree.

Parameters

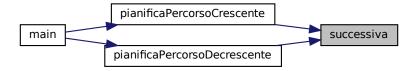
curr A pointer to the current 'Stazione' node.

Returns

A pointer to the in-order successor, or NULL if none exists.

Definition at line 435 of file API_Tallarico.c.

Here is the caller graph for this function:



4.1.3.26 svuotaSpazzatura()

Empties the 'Spazzatura' linked list.

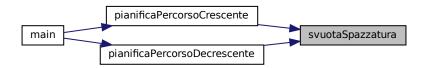
Frees all nodes and their associated 'Route'.

Parameters

lista A pointer to the head of the 'Spazzatura' linked list.

Definition at line 517 of file API_Tallarico.c.

Here is the caller graph for this function:



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