AD Project - Method 2

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Chapter 1

File Index

1.1 File List

Here is a list of all documented files with brief descriptions:

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Chapter 2

File Documentation

2.1 functions.c File Reference

This file contains all the functions needed in Floyd Algorithm to find the shortest path between two nodes.

```
#include "functions.h"
```

Macros

- #define **INF** 0x3fffffff
- #define **V** 6

2.1.1 Detailed Description

This file contains all the functions needed in Floyd Algorithm to find the shortest path between two nodes.

Author

Radu Popa

Date

6/05/2018

2.2 functions.h File Reference

This header file contains all the required definitions of the functions used in Dijkstra Algorithm.

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

Macros

- #define **MAIN_H_INCLUDED**
- #define **INF** 0x3fffffff
- #define **V** 6

Functions

- void find_path (int u, int v, int dist[ ][V], int pred[ ][V])
- void print_path (int dist[ ][V], int pred[ ][V])
- void floyd (int graph[ ][V])

2.2.1 Detailed Description

This header file contains all the required definitions of the functions used in Dijkstra Algorithm.

Author

Radu Popa

Date

05.06.2018.

2.2.2 Function Documentation

2.2.2.1 find_path()

```
void find_path (
              int u,
              int v,
              int dist[][V],
              int pred[][V] )
```

This functions holds information about the path.

Parameters

u	integer
v	integer
dist[ ][ ]	array of integers
pred[ ][ ]	array of integers

Definition at line 16 of file functions.c.

2.2.2.2 floyd()

```
void floyd (
            int graph[][V] )
```

This function finds the shortest path between the source and the destination nodes.

Parameters

graph[][]	array of integers variables

Definition at line 50 of file functions.c.

2.2.2.3 print_path()

```
void print_path (
            int dist[][V],
            int pred[][V] )
```

Parameters

dist[][]	array of integers
pred[][]	array of integers

Definition at line 31 of file functions.c.

2.3 method2.c File Reference

C program to find the shortest path between two nodes, using Floyd Algorithm.

```
#include <stdio.h>
#include "functions.h"
```

Macros

- #define INF 0x3fffffff
- #define **V** 6

2.3.1 Detailed Description

C program to find the shortest path between two nodes, using Floyd Algorithm.

Author

Radu Popa

Date

05.06.2018

2.3.2 Macro Definition Documentation

2.3.2.1 INF

```
#define INF 0x3fffffff
```

printf(), scanf() floyd()

Definition at line 8 of file method2.c.

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