My Project

Generated by Doxygen 1.8.16

Chapter 1

File Index

1.1 File List

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

Chapter 2

File Documentation

2.1 python_problem.py File Reference

Functions

- def python_problem.make (filename)

  Reads a file containing newline seperated integers and returns a list of those integers.
- def python_problem.fun1 (l)

  Sorts an input list in ascending order.
- def python_problem.fun2 (l, x)

  Performs binary search for a specified input value on a given input list which is assumed to be sorted in ascending order.
- def python_problem.fun3 (L)

  Calculates the determinant of an input matrix given in the format of a list whose elements are lists.

Variables

- def **python_problem.L** = make("data")
- def **python_problem.ans** = fun2(L, 48)

2.1.1 Detailed Description

Author

Team Dominatrix

Illustrates doxygen-style comments for documenting a Python program file and the functions in that file.

2.1.2 Function Documentation

2.1.2.1 fun1()

```
def python_problem.fun1 (
              l )
```

Sorts an input list in ascending order.

Parameters

l	the input list

Returns

the sorted list

2.1.2.2 fun2()

```
def python_problem.fun2 (
              l,
              x )
```

Performs binary search for a specified input value on a given input list which is assumed to be sorted in ascending order.

Also prints the mid and low values in each cut.

Parameters

l	the input list
x	the value to be searched

Returns

1 + the number of times the list had to be cut in half during the binary search to find the input value if it was present in the input list, -1 otherwise

2.1.2.3 fun3()

```
def python_problem.fun3 (
              L )
```

Calculates the determinant of an input matrix given in the format of a list whose elements are lists.

Parameters

L	the input matrix

Returns

the determinant

2.1.2.4 make()

```
def python_problem.make (
              filename )
```

Reads a file containing newline seperated integers and returns a list of those integers.

Parameters

filename	name of the input file

Returns

list of integers

Index