My Project

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Contents

Chapter 1

Namespace Index

1.1 Namespace List

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

Chapter 2

Namespace Documentation

2.1 python_problem Namespace Reference

Functions

- def make (filename)

  Making a list from file input.
- def fun1 (l)

  A function to sort a list in ascending order Parameters.
- def fun2 (l, x)

  A function to do a Binary Search.
- def fun3 (L)

  A function to calculate determinant of a square matrix.

Variables

- L = make("data")

  variable to hold List from make function
- ans = fun2(L, 48)

  variable to hold result from fun2 function

2.1.1 Detailed Description

```
@package python_problem
The function involves:
1.Reading from file
2.Making a list from file input
3.Sorting List
4.Doing a binary search on sorted list
5.Finding determinant of square matrix
```

2.1.2 Function Documentation

2.1.2.1 def python_problem.fun1 (*l*)

A function to sort a list in ascending order Parameters.

Parameters

l	: integer list

Returns

l : integer list sorted in ascending order

```
A function to sort a list in ascending order
Parameters
----------
l : integer list

Returns
-------
l : integer list
    sorted in ascending order
```

2.1.2.2 def python_problem.fun2 (*l, x*)

A function to do a Binary Search.

Parameters

l	: integer list
x	: Element to be searched in sorted list l

Returns

probes : number of comparisons done to search x in list l -1 if x not found in list l

```
A function to do a Binary Search
Parameters
----------
l : integer list
    sorted in ascending order

x : int
    Element to be searched in sorted list l

Returns
-------
probes : number of comparisons done to search x in list l
-1 if x not found in list l
```

2.1.2.3 def python_problem.fun3 (*L*)

A function to calculate determinant of a square matrix.

Parameters

L	: 2-D square matrix

Returns

d : determinant of square matrix

```
A function to calculate determinant of a square matrix
Parameters
----------
L : list
    2-D square matrix

Returns
-------
d : int
    determinant of square matrix
```

2.1.2.4 def python_problem.make (*filename*)

Making a list from file input.

Parameters

filename	: The file location of the datafile

Returns

l : integer list

```
Parameters
----------
filename : str
    The file location of the datafile

Returns
-------
l : integer list
```

Index