Syntax

indetermin

Typo
unmatched ( ) s

Semantics

3 + "h" \rightarrow not be double

when run, error may

run fine, but do wrong thing

Logic

Print - debussing

footprints

Trace

add print - show us

1. we notice an error \rightarrow region of code

2. add print to verify region \rightarrow Print variables in use

3. add print in middle \rightarrow see if error before after

d 1-2 lines has bug

4. print everything in bussy lines
```
# List tuple
```

```
# range
```

```
# String
```

```
# `range` tuple
```

```
# List
```

```
# Consecutive integer index → value
```

```
# dict
```

```
# whatever → value
```

```
# key
```

```
# "hello"
```

```
# index
```

```
# Character
```

```
# d["hi"] → 'i'
```

```
# d[34] = 'm'
```

```
# d[7] = 'q'
```

```
# l[0] = 'x'
```

```
# l[2] → 'i'
```

```
# l[7] = 'q'
```

```
# l[0:2] → ('x', 'e')
```

```
# Error
```

```
# dict
```

```
# value
```

```
# key
```

```
# address
```

```
# book
```

```
# key
```

```
# character
```

```
# d
```

```
# name
```

```
# [phone #, address, ...]
```