

/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python

Running doctests in:
/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/disjoint_set/disjoint_set.py

✓ Passed: 1, ✗ Failed: 0

📊 Coverage: 90.7%

Running doctests in:
/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/disjoint_set/alternate_disjoint_set.py

✓ Passed: 8, ✗ Failed: 0

📊 Coverage: 86.7%

Running doctests in:
/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/stacks/next_greater_element.py

✓ Passed: 3, ✗ Failed: 0

📊 Coverage: 79.6%

Running doctests in:
/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/stacks/prefix_evaluation.py

✓ Passed: 12, ✗ Failed: 0

📊 Coverage: 84.0%

Running doctests in:
/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/stacks/dijkstras_two_stack_algorithm.py

✗ Import failed for

/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/stacks/dijkstras_two_stack_algorithm.py: invalid syntax
(stack.py, line 16)

⚠ Error parsing

/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/stacks/stack_with_singly_linked_list.py: invalid syntax
(stack_with_singly_linked_list.py, line 11)

Running doctests in:
/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/stacks/infix_to_prefix_conversion.py

✓ Passed: 10, ✗ Failed: 0

📊 Coverage: 88.6%

⚠ Error parsing

/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/stacks/stack_with_doubly_linked_list.py: invalid syntax
(stack_with_doubly_linked_list.py, line 11)

Running doctests in:
/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/stacks/balanced_parentheses.py

✗ Import failed for

/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/stacks/balanced_parentheses.py: invalid syntax (stack.py, line
16)

Running doctests in:
/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/stacks/stock_span_problem.py

1 1 2 4 5 1 ✓ Passed: 6, ✗ Failed: 0

📊 Coverage: 100.0%

⚠ Error parsing

/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/stacks/stack.py: invalid syntax (stack.py, line 16)

Running doctests in:
/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/stacks/largest_rectangle_histogram.py

✓ Passed: 4, ✗ Failed: 0

📊 Coverage: 86.7%

Running doctests in:
/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/stacks/infix_to_postfix_conversion.py

✗ Import failed for

/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/stacks/infix_to_postfix_conversion.py: invalid syntax (stack.py,
line 16)

Running doctests in:
/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/stacks/lexicographical_numbers.py

✓ Passed: 5, ✗ Failed: 0

📊 Coverage: 80.0%

Running doctests in:
/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/stacks/stack_using_two_queues.py

✓ Passed: 11, ✗ Failed: 0

📊 Coverage: 37.8%

Running doctests in:
/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/stacks/postfix_evaluation.py

✗ Import failed for

/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/stacks/postfix_evaluation.py: unsupported operand type(s) for |:
'type' and 'type'

Running doctests in:
/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/binary_tree/binary_tree_mirror.py

✓ Passed: 4, ✗ Failed: 0

📊 Coverage: 81.0%

Running doctests in:
/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/binary_tree/flatten_binarytree_to_linkedlist.py

✓ Passed: 24, ✗ Failed: 0

📊 Coverage: 89.7%

Running doctests in:
/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/binary_tree/wavelet_tree.py

✓ Passed: 26, ✗ Failed: 0

📊 Coverage: 95.2%

Running doctests in:
/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/binary_tree/merge_two_binary_trees.py

✓ Passed: 16, ✗ Failed: 0

📊 Coverage: 57.9%

Running doctests in:
/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/binary_tree/avl_tree.py

✓ Passed: 10, ✗ Failed: 0

📊 Coverage: 74.0%

Running doctests in:
/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/binary_tree/treap.py

✗ Import failed for
/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/binary_tree/treap.py: No module named
'data_structures.binary_tree.trea'

⚠ Error parsing
/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/binary_tree/non_recursive_segment_tree.py: invalid syntax
(non_recursive_segment_tree.py, line 47)

Running doctests in:
/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/binary_tree/mirror_binary_tree.py

✓ Passed: 15, ✗ Failed: 0

📊 Coverage: 86.5%

Running doctests in:
/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/binary_tree/segment_tree_other.py

✓ Passed: 32, ✗ Failed: 0

📊 Coverage: 79.2%

Running doctests in:
/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/binary_tree/is_sum_tree.py

✓ Passed: 21, ✗ Failed: 0

📊 Coverage: 89.1%

Running doctests in:
/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/binary_tree/fenwick_tree.py

✗ Import failed for
/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/binary_tree/fenwick_tree.py: unsupported operand type(s) for |:
'types.GenericAlias' and 'NoneType'

Running doctests in:
/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/binary_tree/binary_search_tree.py

✗ Import failed for
/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/binary_tree/binary_search_tree.py: cannot import name 'Self'
from 'typing'

(/Users/rohinivsenthil/.asdf/installs/python/3.9.18/lib/python3.9/typing.py)

Running doctests in:
/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/binary_tree/binary_tree_traversals.py

✓ Passed: 12, ✗ Failed: 0

📊 Coverage: 81.4%


Running doctests in:
/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/binary_tree/red_black_tree.py


✓ Passed: 1, ✗ Failed: 0



📊 Coverage: 77.1%


Running doctests in:
/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/binary_tree/floor_and_ceiling.py


✓ Passed: 12, ✗ Failed: 0



 Coverage: 84.8%


 Running doctests in:
/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/binary_tree/binary_tree_path_sum.py


 Passed: 21,  Failed: 0



 Coverage: 90.3%


 Running doctests in:
/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/binary_tree/symmetric_tree.py


 Passed: 18,  Failed: 0


 Coverage: 90.0%

 Running doctests in:
/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/binary_tree/diff_views_of_binary_tree.py


 Passed: 9,  Failed: 0



 Coverage: 97.4%


 Running doctests in:
/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/binary_tree/inorder_tree_traversal_2022.py


 Import failed for



/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/binary_tree/inorder_tree_traversal_2022.py: unsupported operand
type(s) for |: 'type' and 'NoneType'


 Running doctests in:
/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/binary_tree/distribute_coins.py


 Passed: 6,  Failed: 0



 Coverage: 94.7%


 Running doctests in:
/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/binary_tree/basic_binary_tree.py


 Passed: 12,  Failed: 0



 Coverage: 96.4%


 Running doctests in:
/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/binary_tree/segment_tree.py


 Passed: 12,  Failed: 0



 Coverage: 76.3%


 Running doctests in:
/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/binary_tree/lowest_common_ancestor.py


 Passed: 33,  Failed: 0



 Coverage: 71.7%


 Running doctests in:
/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/binary_tree/diameter_of_binary_tree.py





 Passed: 14,  Failed: 0





 Coverage: 61.5%





 Running doctests in:
/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/binary_tree/lazy_segment_tree.py





 Passed: 14,  Failed: 0





 Coverage: 43.2%





 Running doctests in:
/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/binary_tree/serialize_deserialize_binary_tree.py
 Passed: 19,  Failed: 0
 Coverage: 93.0%





 Running doctests in:
/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/binary_tree/maximum_fenwick_tree.py
 Passed: 21,  Failed: 0
 Coverage: 93.9%





 Running doctests in:
/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/binary_tree/binary_search_tree_recursive.py
 Passed: 57,  Failed: 0
 Coverage: 34.6%





 Running doctests in:
/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/binary_tree/maximum_sum_bst.py
 Passed: 19,  Failed: 0
 Coverage: 92.6%





 Running doctests in:
/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/binary_tree/binary_tree_node_sum.py
 Passed: 11,  Failed: 0
 Coverage: 89.5%




 Running doctests in:
/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/binary_tree/number_of_possible_binary_trees.py
 Passed: 8,  Failed: 0
 Coverage: 82.6%


 Running doctests in:
/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/binary_tree/is_sorted.py
 Passed: 13,  Failed: 0
 Coverage: 65.5%


 Running doctests in:
/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/linked_list/merge_two_lists.py
 Passed: 12,  Failed: 0
 Coverage: 86.7%



 Running doctests in:
/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/linked_list/is_palindrome.py
 Passed: 16,  Failed: 0
 Coverage: 95.9%


 Running doctests in:
/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/linked_list/__init__.py
 Passed: 25,  Failed: 0
 Coverage: 95.7%


 Running doctests in:
/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/linked_list/middle_element_of_linked_list.py
 Passed: 14,  Failed: 0


 Coverage: 82.8%


 Running doctests in:
/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/linked_list/rotate_to_the_right.py


 Passed: 21,  Failed: 0



 Coverage: 76.2%


 Running doctests in:
/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/linked_list/from_sequence.py


 Import failed for
/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/linked_list/from_sequence.py: unsupported operand type(s) for |:
'type' and 'type'



 Error parsing
/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/linked_list/skip_list.py: invalid syntax (skip_list.py, line 16)


 Running doctests in:
/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/linked_list/circular_linked_list.py


 Passed: 1,  Failed: 0


 Coverage: 92.5%


 Running doctests in:
/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/linked_list/swap_nodes.py


 Passed: 38,  Failed: 0


 Coverage: 77.3%


 Running doctests in:
/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/linked_list/reverse_k_group.py



 Import failed for
/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/linked_list/reverse_k_group.py: No module named
'data_structures.linked_list.reverse_k_grou'


 Error parsing
/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/linked_list/doubly_linked_list_two.py: invalid syntax
(doubly_linked_list_two.py, line 19)


 Running doctests in:
/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/linked_list/floyds_cycle_detection.py



 Import failed for
/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/linked_list/floyds_cycle_detection.py: cannot import name 'Self'
from 'typing'
(/Users/rohinivsenthil/.asdf/installs/python/3.9.18/lib/python3.9/typing.py)


 Running doctests in:
/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/linked_list/doubly_linked_list.py

 Passed: 35,  Failed: 0

 Coverage: 84.3%

 Running doctests in:
/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/linked_list/print_reverse.py

 Passed: 31,  Failed: 0

 Coverage: 87.2%

Running doctests in:
/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/linked_list/deque_doubly.py
✗ Import failed for
/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/linked_list/deque_doubly.py: No module named
'data_structures.linked_list.deque_doubl'

Running doctests in:
/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/linked_list/has_loop.py
✗ Import failed for
/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/linked_list/has_loop.py: No module named
'data_structures.linked_list.has_loo'

Running doctests in:
/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/linked_list/singly_linked_list.py
✓ Passed: 118, ✗ Failed: 0
Coverage: 79.3%

Running doctests in:
/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/hashing/bloom_filter.py
✓ Passed: 19, ✗ Failed: 0
Coverage: 100.0%

Running doctests in:
/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/hashing/hash_table.py
✗ Import failed for
/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/hashing/hash_table.py: unsupported operand type(s) for |: 'type'
and 'NoneType'

Running doctests in:
/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/hashing/double_hash.py
✗ Import failed for
/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/hashing/double_hash.py: unsupported operand type(s) for |:
'type' and 'NoneType'

===== test session starts
=====

platform darwin -- Python 3.9.18, pytest-7.1.3, pluggy-1.0.0
rootdir: /Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-
Python, configfile: pyproject.toml
plugins: anyio-4.10.0
collected 238 items / 34 errors

===== ERRORS
=====

_____ ERROR collecting data_structures/arrays/product_sum.py

.././data_structures/arrays/product_sum.py:23: in <module>
def product_sum(arr: list[int | list], depth: int) -> int:
E TypeError: unsupported operand type(s) for |: 'type' and 'type'

__builtins__ = <builtins>
__cached__ =
'/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/arrays/__pycache__/product_sum.cpython-39.pyc'
__doc__ = '\nCalculate the Product Sum from a Special Array.
\nreference: https://dev.to/sfrasica/algorithms-product-sum-from-an-..., [z]]],

```

\nthe product sum is x + 2 * (y + 3z).\n\nExample Input:\n[5, 2, [-7, 1], 3, [6,
[-13, 8], 4]]\nOutput: 12\n\n'
__file__ =
'/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/arrays/product_sum.py'
__loader__ = <_frozen_importlib_external.SourceFileLoader object at
0x106f64160>
__name__ = 'data_structures.arrays.product_sum'
__package__ = 'data_structures.arrays'
__spec__ = ModuleSpec(name='data_structures.arrays.product_sum',
loader=<_frozen_importlib_external.SourceFileLoader object at
0x...in='/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-
Python/data_structures/arrays/product_sum.py')
_____ ERROR collecting data_structures/binary_tree/binary_search_tree.py
_____
../../data_structures/binary_tree/binary_search_tree.py:96: in <module>
    from typing import Any, Self
E ImportError: cannot import name 'Self' from 'typing'
(/Users/rohiniivsenthil/.asdf/installs/python/3.9.18/lib/python3.9/typing.py)
    Any = typing.Any
    Iterable = <class 'collections.abc.Iterable'>
    Iterator = <class 'collections.abc.Iterator'>
    __builtins__ = <builtins>
    __cached__ =
'/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/binary_tree/__pycache__/binary_search_tree.cpython-39.pyc'
    __doc__ = '\nA binary search Tree\n\nExample\n
8\n
/ \\\n
3 10\n
/ \\\n
...empty()\nFalse\n>>> not
t\nFalse\n>>> for i in testlist:\n... t.remove(i)\n>>> t.empty()\nTrue\n>>>
not t\nTrue\n'
    __file__ =
'/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/binary_tree/binary_search_tree.py'
__loader__ = <_frozen_importlib_external.SourceFileLoader object at
0x106fc4430>
__name__ = 'data_structures.binary_tree.binary_search_tree'
__package__ = 'data_structures.binary_tree'
__spec__ =
ModuleSpec(name='data_structures.binary_tree.binary_search_tree',
loader=<_frozen_importlib_external.SourceFileLoader
...ohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/binary_tree/binary_search_tree.py')
    annotations = _Feature((3, 7, 0, 'beta', 1), (3, 10, 0, 'alpha', 0),
16777216)
    dataclass = <function dataclass at 0x105aad5e0>
_____ ERROR collecting data_structures/binary_tree/fenwick_tree.py
_____
../../data_structures/binary_tree/fenwick_tree.py:4: in <module>
    class FenwickTree:
        __builtins__ = <builtins>
        __cached__ =
'/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/binary_tree/__pycache__/fenwick_tree.cpython-39.pyc'
        __doc__ = None
        __file__ =
'/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/binary_tree/fenwick_tree.py'
        __loader__ = <_frozen_importlib_external.SourceFileLoader object at
0x10704a880>
        __name__ = 'data_structures.binary_tree.fenwick_tree'
        __package__ = 'data_structures.binary_tree'
        __spec__ = ModuleSpec(name='data_structures.binary_tree.fenwick_tree',
loader=<_frozen_importlib_external.SourceFileLoader
object...sers/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-

```



```

Python/data_structures/binary_tree/fenwick_tree.py')
    deepcopy = <function deepcopy at 0x10591f280>
../data_structures/binary_tree/fenwick_tree.py:11: in FenwickTree
    def __init__(self, arr: list[int] | None = None, size: int | None = None) ->
None:
E   TypeError: unsupported operand type(s) for |: 'types.GenericAlias' and
'NoneType'
    __doc__ = '\n    Fenwick Tree\n\n    More info:
https://en.wikipedia.org/wiki/Fenwick_tree\n    '
    __module__ = 'data_structures.binary_tree.fenwick_tree'
    __qualname__ = 'FenwickTree'
___ ERROR collecting data_structures/binary_tree/inorder_tree_traversal_2022.py
___
../data_structures/binary_tree/inorder_tree_traversal_2022.py:17: in <module>
    def insert(node: BinaryTreeNode | None, new_value: int) -> BinaryTreeNode |
None:
E   TypeError: unsupported operand type(s) for |: 'type' and 'NoneType'
    BinaryTreeNode = <class
'data_structures.binary_tree.inorder_tree_traversal_2022.BinaryTreeNode'>
    __builtins__ = <builtins>
    __cached__ =
'/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/binary_tree/__pycache__/
inorder_tree_traversal_2022.cpython-39.pyc'
    __doc__ = '\nIllustrate how to implement inorder traversal in binary
search tree.\nAuthor: Gurneet Singh\nhttps://www.geeksforgeeks.org/tree-
traversals-inorder-preorder-and-postorder/\n'
    __file__ =
'/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/binary_tree/inorder_tree_traversal_2022.py'
    __loader__ = <_frozen_importlib_external.SourceFileLoader object at
0x10705c880>
    __name__ = 'data_structures.binary_tree.inorder_tree_traversal_2022'
    __package__ = 'data_structures.binary_tree'
    __spec__ =
ModuleSpec(name='data_structures.binary_tree.inorder_tree_traversal_2022',
loader=<_frozen_importlib_external.SourceFi...thil/Documents/rit-workspace/
swen-777/TheAlgorithms-Python/data_structures/binary_tree/
inorder_tree_traversal_2022.py')
___ ERROR collecting data_structures/binary_tree/non_recursive_segment_tree.py
___
../data_structures/binary_tree/non_recursive_segment_tree.py
___init__.py:127: in import_module
    return _bootstrap._gcd_import(name[level:], package, level)
        level      = 0
        name       = 'data_structures.binary_tree.non_recursive_segment_tree'
        package    = None
<frozen importlib._bootstrap>:1030: in _gcd_import
    ???
        level      = 0
        name       = 'data_structures.binary_tree.non_recursive_segment_tree'
        package    = None
<frozen importlib._bootstrap>:1007: in _find_and_load
    ???
        import_    = <function _gcd_import at 0x104f7c310>
        module     = <object object at 0x104f55060>
        name       = 'data_structures.binary_tree.non_recursive_segment_tree'
<frozen importlib._bootstrap>:986: in _find_and_load_unlocked
    ???
        import_    = <function _gcd_import at 0x104f7c310>
        name       = 'data_structures.binary_tree.non_recursive_segment_tree'
        parent     = 'data_structures.binary_tree'
        parent_module = <module 'data_structures.binary_tree' from
'/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/

```

```

data_structures/binary_tree/__init__.py'>
    path =
['/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/binary_tree']
    spec =
ModuleSpec(name='data_structures.binary_tree.non_recursive_segment_tree',
loader=<_frozen_importlib_external.SourceFile...nthil/Documents/rit-workspace/
swen-777/TheAlgorithms-Python/data_structures/binary_tree/
non_recursive_segment_tree.py')
<frozen importlib._bootstrap>:680: in _load_unlocked
    ???
    module = <module
'data_structures.binary_tree.non_recursive_segment_tree' from
'/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/binary_tree/non_recursive_segment_tree.py'>
    spec =
ModuleSpec(name='data_structures.binary_tree.non_recursive_segment_tree',
loader=<_frozen_importlib_external.SourceFile...nthil/Documents/rit-workspace/
swen-777/TheAlgorithms-Python/data_structures/binary_tree/
non_recursive_segment_tree.py')
<frozen importlib._bootstrap_external>:846: in exec_module
    ???
    module = <module
'data_structures.binary_tree.non_recursive_segment_tree' from
'/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/binary_tree/non_recursive_segment_tree.py'>
    self = <_frozen_importlib_external.SourceFileLoader object at
0x1070b7700>
<frozen importlib._bootstrap_external>:983: in get_code
    ???
    bytecode_path =
'/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/binary_tree/__pycache__/
non_recursive_segment_tree.cpython-39.pyc'
    check_source = True
    fullname = 'data_structures.binary_tree.non_recursive_segment_tree'
    hash_based = False
    self = <_frozen_importlib_external.SourceFileLoader object at
0x1070b7700>
    source_bytes = b'"""\nA non-recursive Segment Tree implementation with
range query and single element update,\nworks virtually with a...
max_segment_tree.update(index, value)\n          sum_segment_tree.update(index,
value)\n          test_all_segments()\n'
    source_hash = None
    source_mtime = 1756904091
    source_path =
'/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/binary_tree/non_recursive_segment_tree.py'
    st = {'mtime': 1756904091.58345, 'size': 4746}
<frozen importlib._bootstrap_external>:913: in source_to_code
    ???
    _optimize = -1
    data = b'"""\nA non-recursive Segment Tree implementation with
range query and single element update,\nworks virtually with a...
max_segment_tree.update(index, value)\n          sum_segment_tree.update(index,
value)\n          test_all_segments()\n'
    path =
'/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/binary_tree/non_recursive_segment_tree.py'
    self = <_frozen_importlib_external.SourceFileLoader object at
0x1070b7700>
<frozen importlib._bootstrap>:228: in _call_with_frames_removed
    ???
E File

```

```

"/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/binary_tree/non_recursive_segment_tree.py", line 47
E      class SegmentTree[T]:
E          ^
E      SyntaxError: invalid syntax
      args      = (b'"""\nA non-recursive Segment Tree implementation with
range query and single element update,\nworks virtually with ...cuments/rit-
workspace/swen-777/TheAlgorithms-Python/data_structures/binary_tree/
non_recursive_segment_tree.py', 'exec')
      f          = <built-in function compile>
      kwds       = {'dont_inherit': True, 'optimize': -1}
_____ ERROR collecting data_structures/hashing/double_hash.py
_____
../../data_structures/hashing/double_hash.py:15: in <module>
    from .hash_table import HashTable
    __builtins__ = <builtins>
    __cached__ =
'/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/hashing/__pycache__/double_hash.cpython-39.pyc'
    __doc__      = '\nDouble hashing is a collision resolving technique in
Open Addressed Hash tables.\nDouble hashing uses the idea of a... are hash
functions and TABLE_SIZE is size of hash table.\n\nReference:
https://en.wikipedia.org/wiki/Double_hashing\n'
    __file__     =
'/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/hashing/double_hash.py'
    __loader__   = <_frozen_importlib_external.SourceFileLoader object at
0x10714e5b0>
    __name__     = 'data_structures.hashing.double_hash'
    __package__  = 'data_structures.hashing'
    __spec__     = ModuleSpec(name='data_structures.hashing.double_hash',
loader=<_frozen_importlib_external.SourceFileLoader object at
0...n='/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-
Python/data_structures/hashing/double_hash.py')
../../data_structures/hashing/hash_table.py:7: in <module>
    class HashTable:
        __builtins__ = <builtins>
        __cached__ =
'/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/hashing/__pycache__/hash_table.cpython-39.pyc'
        __doc__     = None
        __file__    =
'/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/hashing/hash_table.py'
        __loader__  = <_frozen_importlib_external.SourceFileLoader object at
0x10714e910>
        __name__    = 'data_structures.hashing.hash_table'
        __package__ = 'data_structures.hashing'
        __spec__    = ModuleSpec(name='data_structures.hashing.hash_table',
loader=<_frozen_importlib_external.SourceFileLoader object at
0x...in='/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-
Python/data_structures/hashing/hash_table.py')
        abstractmethod = <function abstractmethod at 0x104ff0f70>
        next_prime     = <function next_prime at 0x10714f4c0>
../../data_structures/hashing/hash_table.py:15: in HashTable
    charge_factor: int | None = None,
E      TypeError: unsupported operand type(s) for |: 'type' and 'NoneType'
    __doc__      = '\n    Basic Hash Table example with open addressing and
linear probing\n'
    __module__   = 'data_structures.hashing.hash_table'
    __qualname__ = 'HashTable'
_____ ERROR collecting data_structures/hashing/hash_map.py
_____
../../../../../../../../.asdf/installs/python/3.9.18/lib/python3.9/importlib/

```

```

__init__.py:127: in import_module
    return _bootstrap.gcd_import(name[level:], package, level)
        level      = 0
        name       = 'data_structures.hashing.hash_map'
        package    = None
<frozen importlib._bootstrap>:1030: in _gcd_import
    ???
        level      = 0
        name       = 'data_structures.hashing.hash_map'
        package    = None
<frozen importlib._bootstrap>:1007: in _find_and_load
    ???
        import_    = <function _gcd_import at 0x104f7c310>
        module     = <object object at 0x104f55060>
        name       = 'data_structures.hashing.hash_map'
<frozen importlib._bootstrap>:986: in _find_and_load_unlocked
    ???
        import_    = <function _gcd_import at 0x104f7c310>
        name       = 'data_structures.hashing.hash_map'
        parent     = 'data_structures.hashing'
        parent_module = <module 'data_structures.hashing' from
'/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/hashing/__init__.py'>
        path       =
['/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/hashing']
        spec       = ModuleSpec(name='data_structures.hashing.hash_map',
loader=<_frozen_importlib_external.SourceFileLoader object at
0x10...igin='/Users/rohinivsenthil/Documents/rit-workspace/swen-777/
TheAlgorithms-Python/data_structures/hashing/hash_map.py'>)
<frozen importlib._bootstrap>:680: in _load_unlocked
    ???
        module     = <module 'data_structures.hashing.hash_map' from
'/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/hashing/hash_map.py'>
        spec       = ModuleSpec(name='data_structures.hashing.hash_map',
loader=<_frozen_importlib_external.SourceFileLoader object at
0x10...igin='/Users/rohinivsenthil/Documents/rit-workspace/swen-777/
TheAlgorithms-Python/data_structures/hashing/hash_map.py'>)
<frozen importlib._bootstrap_external>:846: in exec_module
    ???
        module     = <module 'data_structures.hashing.hash_map' from
'/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/hashing/hash_map.py'>
        self       = <_frozen_importlib_external.SourceFileLoader object at
0x10715f400>
<frozen importlib._bootstrap_external>:983: in get_code
    ???
        bytecode_path =
'/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/hashing/__pycache__/hash_map.cpython-39.pyc'
        check_source = True
        fullname    = 'data_structures.hashing.hash_map'
        hash_based  = False
        self        = <_frozen_importlib_external.SourceFileLoader object at
0x10715f400>
        source_bytes = b'"""\nHash map with open
addressing.\n\nhttps://en.wikipedia.org/wiki/Hash_table\n\nAnother hash map
implementation, ...      return f"HashMap({val_string})"\n\n\nif __name__ ==
"__main__":\n    import doctest\n\n    doctest.testmod()\n'
        source_hash = None
        source_mtime = 1756904091
        source_path =
'/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/

```

```

data_structures/hashing/hash_map.py'
    st      = {'mtime': 1756904091.5865076, 'size': 8730}
<frozen importlib._bootstrap_external>:913: in source_to_code
    ???
        _optimize = -1
        data      = b'"""\nHash map with open
addressing.\n\nhttps://en.wikipedia.org/wiki/Hash_table\n\nAnother hash map
implementation, ...      return f"HashMap({val_string})"\n\n\nif __name__ ==
"__main__":\n    import doctest\n\n    doctest.testmod()\n'
        path      =
'/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/hashing/hash_map.py'
        self      = <_frozen_importlib_external.SourceFileLoader object at
0x10715f400>
<frozen importlib._bootstrap>:228: in _call_with_frames_removed
    ???
E      File
"/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/hashing/hash_map.py", line 20
E      class _Item[KEY, VAL]:
E          ^
E      SyntaxError: invalid syntax
    args      = (b'"""\nHash map with open
addressing.\n\nhttps://en.wikipedia.org/wiki/Hash_table\n\nAnother hash map
implementation,...ers/rohiniivsenthil/Documents/rit-workspace/swen-777/
TheAlgorithms-Python/data_structures/hashing/hash_map.py', 'exec')
    f          = <built-in function compile>
    kwds       = {'dont_inherit': True, 'optimize': -1}
_____ ERROR collecting data_structures/hashing/hash_table.py
_____
.././data_structures/hashing/hash_table.py:7: in <module>
    class HashTable:
        __builtins__ = <builtins>
        __cached__ =
'/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/hashing/__pycache__/hash_table.cpython-39.pyc'
        __doc__     = None
        __file__     =
'/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/hashing/hash_table.py'
        __loader__   = <_frozen_importlib_external.SourceFileLoader object at
0x1071615e0>
        __name__     = 'data_structures.hashing.hash_table'
        __package__   = 'data_structures.hashing'
        __spec__      = ModuleSpec(name='data_structures.hashing.hash_table',
loader=<_frozen_importlib_external.SourceFileLoader object at
0x...in='/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-
Python/data_structures/hashing/hash_table.py')
        abstractmethod = <function abstractmethod at 0x104ff0f70>
        next_prime    = <function next_prime at 0x10714f4c0>
.././data_structures/hashing/hash_table.py:15: in HashTable
    charge_factor: int | None = None,
E      TypeError: unsupported operand type(s) for |: 'type' and 'NoneType'
        __doc__       = '\n    Basic Hash Table example with open addressing and
linear probing\n    '
        __module__    = 'data_structures.hashing.hash_table'
        __qualname__  = 'HashTable'
_____ ERROR collecting data_structures/hashing/hash_table_with_linked_list.py
_____
.././data_structures/hashing/hash_table_with_linked_list.py:3: in <module>
    from .hash_table import HashTable
        __builtins__ = <builtins>
        __cached__ =
'/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/

```

```

data_structures/hashing/__pycache__/hash_table_with_linked_list.cpython-39.pyc'
    __doc__ = None
    __file__ =
'/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/hashing/hash_table_with_linked_list.py'
    __loader__ = <_frozen_importlib_external.SourceFileLoader object at
0x107166640>
    __name__ = 'data_structures.hashing.hash_table_with_linked_list'
    __package__ = 'data_structures.hashing'
    __spec__ =
ModuleSpec(name='data_structures.hashing.hash_table_with_linked_list',
loader=<_frozen_importlib_external.SourceFileLo...vsenthil/Documents/rit-
workspace/swen-777/TheAlgorithms-Python/data_structures/hashing/
hash_table_with_linked_list.py')
    deque = <class 'collections.deque'>
..././data_structures/hashing/hash_table.py:7: in <module>
    class HashTable:
        __builtins__ = <builtins>
        __cached__ =
'/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/hashing/__pycache__/hash_table.cpython-39.pyc'
        __doc__ = None
        __file__ =
'/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/hashing/hash_table.py'
        __loader__ = <_frozen_importlib_external.SourceFileLoader object at
0x107166640>
        __name__ = 'data_structures.hashing.hash_table'
        __package__ = 'data_structures.hashing'
        __spec__ = ModuleSpec(name='data_structures.hashing.hash_table',
loader=<_frozen_importlib_external.SourceFileLoader object at
0x...in='/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-
Python/data_structures/hashing/hash_table.py')
        abstractmethod = <function abstractmethod at 0x104ff0f70>
        next_prime = <function next_prime at 0x10714f4c0>
..././data_structures/hashing/hash_table.py:15: in HashTable
    charge_factor: int | None = None,
E   TypeError: unsupported operand type(s) for |: 'type' and 'NoneType'
    __doc__ = '\n    Basic Hash Table example with open addressing and
linear probing\n'
    __module__ = 'data_structures.hashing.hash_table'
    __qualname__ = 'HashTable'
_____ ERROR collecting data_structures/hashing/quadratic_probing.py
_____
..././data_structures/hashing/quadratic_probing.py:3: in <module>
    from .hash_table import HashTable
        __builtins__ = <builtins>
        __cached__ =
'/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/hashing/__pycache__/quadratic_probing.cpython-39.pyc'
        __doc__ = None
        __file__ =
'/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/hashing/quadratic_probing.py'
        __loader__ = <_frozen_importlib_external.SourceFileLoader object at
0x107177460>
        __name__ = 'data_structures.hashing.quadratic_probing'
        __package__ = 'data_structures.hashing'
        __spec__ =
ModuleSpec(name='data_structures.hashing.quadratic_probing',
loader=<_frozen_importlib_external.SourceFileLoader
objec...ers/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-
Python/data_structures/hashing/quadratic_probing.py')
..././data_structures/hashing/hash_table.py:7: in <module>

```

[illegible]

```

../../../../../../../../.asdf/installs/python/3.9.18/lib/python3.9/site-packages/
_pytest/pathlib.py:533: in import_path
    importlib.import_module(module_name)
../../../../../../../../.asdf/installs/python/3.9.18/lib/python3.9/importlib/
__init__.py:127: in import_module
    return _bootstrap._gcd_import(name[level:], package, level)
<frozen importlib._bootstrap>:1030: in _gcd_import
    ???
<frozen importlib._bootstrap>:1007: in _find_and_load
    ???
<frozen importlib._bootstrap>:986: in _find_and_load_unlocked
    ???
<frozen importlib._bootstrap>:680: in _load_unlocked
    ???
../../../../../../../../.asdf/installs/python/3.9.18/lib/python3.9/site-packages/
_pytest/assertion/rewrite.py:168: in exec_module
    exec(co, module.__dict__)
../../../../data_structures/hashing/tests/test_hash_map.py:5: in <module>
    from data_structures.hashing.hash_map import HashMap
E     File
"/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/hashing/hash_map.py", line 20
E         class _Item[KEY, VAL]:
E             ^
E     SyntaxError: invalid syntax
_____ ERROR collecting data_structures/heap/heap.py
../../../../../../../../.asdf/installs/python/3.9.18/lib/python3.9/importlib/
__init__.py:127: in import_module
    return _bootstrap._gcd_import(name[level:], package, level)
        level      = 0
        name       = 'data_structures.heap.heap'
        package    = None
<frozen importlib._bootstrap>:1030: in _gcd_import
    ???
        level      = 0
        name       = 'data_structures.heap.heap'
        package    = None
<frozen importlib._bootstrap>:1007: in _find_and_load
    ???
        import_    = <function _gcd_import at 0x104f7c310>
        module     = <object object at 0x104f55060>
        name       = 'data_structures.heap.heap'
<frozen importlib._bootstrap>:986: in _find_and_load_unlocked
    ???
        import_    = <function _gcd_import at 0x104f7c310>
        name       = 'data_structures.heap.heap'
        parent     = 'data_structures.heap'
        parent_module = <module 'data_structures.heap' from
'/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/heap/__init__.py'>
        path       =
['/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/heap']
        spec       = ModuleSpec(name='data_structures.heap.heap',
loader=<_frozen_importlib_external.SourceFileLoader object at 0x1074415b0>,
origin='/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-
Python/data_structures/heap/heap.py')
<frozen importlib._bootstrap>:680: in _load_unlocked
    ???
        module     = <module 'data_structures.heap.heap' from
'/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/heap/heap.py'>
        spec       = ModuleSpec(name='data_structures.heap.heap',

```



```

loader=<_frozen_importlib_external.SourceFileLoader object at 0x1074415b0>,
origin='/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/data_structures/heap/heap.py')
<frozen importlib._bootstrap_external>:846: in exec_module
    ???
    module      = <module 'data_structures.heap.heap' from
'/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/heap/heap.py'>
    self        = <_frozen_importlib_external.SourceFileLoader object at
0x1074415b0>
<frozen importlib._bootstrap_external>:983: in get_code
    ???
    bytecode_path =
'/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/heap/__pycache__/heap.cpython-39.pyc'
    check_source = True
    fullname     = 'data_structures.heap.heap'
    hash_based   = False
    self         = <_frozen_importlib_external.SourceFileLoader object at
0x1074415b0>
    source_bytes = b'from __future__ import annotations\n\nfrom abc import
abstractmethod\nfrom collections.abc import Iterable\nfrom typing import\nvalue 100 inserted: {heap}"))\n\n        heap.heap_sort()\n        print(f"heap-
sorted array: {heap}\\n")\n'
    source_hash = None
    source_mtime = 1756904091
    source_path =
'/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/heap/heap.py'
    st          = {'mtime': 1756904091.5887065, 'size': 7390}
<frozen importlib._bootstrap_external>:913: in source_to_code
    ???
    _optimize    = -1
    data         = b'from __future__ import annotations\n\nfrom abc import
abstractmethod\nfrom collections.abc import Iterable\nfrom typing import\nvalue 100 inserted: {heap}"))\n\n        heap.heap_sort()\n        print(f"heap-
sorted array: {heap}\\n")\n'
    path         =
'/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/heap/heap.py'
    self         = <_frozen_importlib_external.SourceFileLoader object at
0x1074415b0>
<frozen importlib._bootstrap>:228: in _call_with_frames_removed
    ???
E      File
"/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/heap/heap.py", line 25
E          class Heap[T: Comparable]:
E              ^
E      SyntaxError: invalid syntax
    args         = (b'from __future__ import annotations\n\nfrom abc import
abstractmethod\nfrom collections.abc import Iterable\nfrom typing import\n'
'/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/heap/heap.py', 'exec')
    f            = <built-in function compile>
    kwds         = {'dont_inherit': True, 'optimize': -1}
_____ ERROR collecting data_structures/heap/heap_generic.py
_____/data_structures/heap/heap_generic.py:4: in <module>
    class Heap:
        Callable = <class 'collections.abc.Callable'>
        __builtins__ = <builtins>
        __cached__ =
'/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/

```

```

data_structures/heap/_pycache__/_heap_generic.cpython-39.pyc'
    __doc__ = None
    __file__ = 
'/Users/rohinivsenhil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/heap/heap_generic.py'
    __loader__ = <_frozen_importlib_external.SourceFileLoader object at
0x107271790>
    __name__ = 'data_structures.heap.heap_generic'
    __package__ = 'data_structures.heap'
    __spec__ = ModuleSpec(name='data_structures.heap.heap_generic',
loader=<_frozen_importlib_external.SourceFileLoader object at
0x1...gin='/Users/rohinivsenhil/Documents/rit-workspace/swen-777/TheAlgorithms-
Python/data_structures/heap/heap_generic.py')
...../data_structures/heap/heap_generic.py:10: in Heap
    def __init__(self, key: Callable | None = None) -> None:
E   TypeError: unsupported operand type(s) for |: 'ABCMeta' and 'NoneType'
    __doc__ = '\n      A generic Heap class, can be used as min or max by
passing the key function\n      accordingly.\n      '
    __module__ = 'data_structures.heap.heap_generic'
    __qualname__ = 'Heap'
_____ ERROR collecting data_structures/heap/randomized_heap.py
____
...../.../.asdf/installs/python/3.9.18/lib/python3.9/importlib/
__init__.py:127: in import_module
    return _bootstrap.gcd_import(name[level:], package, level)
        level          = 0
        name           = 'data_structures.heap.randomized_heap'
        package        = None
<frozen importlib._bootstrap>:1030: in _gcd_import
    ???
        level          = 0
        name           = 'data_structures.heap.randomized_heap'
        package        = None
<frozen importlib._bootstrap>:1007: in _find_and_load
    ???
        import_        = <function _gcd_import at 0x104f7c310>
        module         = <object object at 0x104f55060>
        name           = 'data_structures.heap.randomized_heap'
<frozen importlib._bootstrap>:986: in _find_and_load_unlocked
    ???
        import_        = <function _gcd_import at 0x104f7c310>
        name           = 'data_structures.heap.randomized_heap'
        parent         = 'data_structures.heap'
        parent_module  = <module 'data_structures.heap' from
'/Users/rohinivsenhil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/heap/__init__.py'>
        path           = 
['/Users/rohinivsenhil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/heap']
        spec           = ModuleSpec(name='data_structures.heap.randomized_heap',
loader=<_frozen_importlib_external.SourceFileLoader object at
...='/Users/rohinivsenhil/Documents/rit-workspace/swen-777/TheAlgorithms-
Python/data_structures/heap/randomized_heap.py')
<frozen importlib._bootstrap>:680: in _load_unlocked
    ???
        module         = <module 'data_structures.heap.randomized_heap' from
'/Users/rohinivsenhil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/heap/randomized_heap.py'>
        spec           = ModuleSpec(name='data_structures.heap.randomized_heap',
loader=<_frozen_importlib_external.SourceFileLoader object at
...='/Users/rohinivsenhil/Documents/rit-workspace/swen-777/TheAlgorithms-
Python/data_structures/heap/randomized_heap.py')
<frozen importlib._bootstrap_external>:846: in exec_module
    ???

```

```

        module      = <module 'data_structures.heap.randomized_heap' from
'/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/heap/randomized_heap.py'>
        self        = <_frozen_importlib_external.SourceFileLoader object at
0x107432790>
<frozen importlib._bootstrap_external>:983: in get_code
    ???
        bytecode_path =
'/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/heap/__pycache__/randomized_heap.cpython-39.pyc'
        check_source = True
        fullname     = 'data_structures.heap.randomized_heap'
        hash_based   = False
        self         = <_frozen_importlib_external.SourceFileLoader object at
0x107432790>
        source_bytes = b'#!/usr/bin/env python3\n\nfrom __future__ import
annotations\n\nimport random\nfrom collections.abc import Iterable\n...\n
return self._root is not None\n\n\nif __name__ == "__main__":\n    import
doctest\n\n    doctest.testmod()\n'
        source_hash = None
        source_mtime = 1756904091
        source_path =
'/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/heap/randomized_heap.py'
        st           = {'mtime': 1756904091.589705, 'size': 5297}
<frozen importlib._bootstrap_external>:913: in source_to_code
    ???
        _optimize    = -1
        data         = b'#!/usr/bin/env python3\n\nfrom __future__ import
annotations\n\nimport random\nfrom collections.abc import Iterable\n...\n
return self._root is not None\n\n\nif __name__ == "__main__":\n    import
doctest\n\n    doctest.testmod()\n'
        path         =
'/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/heap/randomized_heap.py'
        self         = <_frozen_importlib_external.SourceFileLoader object at
0x107432790>
<frozen importlib._bootstrap>:228: in _call_with_frames_removed
    ???
E       File
"/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/heap/randomized_heap.py", line 12
E         class RandomizedHeapNode[T: bool]:
E             ^
E   SyntaxError: invalid syntax
        args        = (b'#!/usr/bin/env python3\n\nfrom __future__ import
annotations\n\nimport random\nfrom collections.abc import
Iterable\n...\nrohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-
Python/data_structures/heap/randomized_heap.py', 'exec')
        f           = <built-in function compile>
        kwds        = {'dont_inherit': True, 'optimize': -1}
_____ ERROR collecting data_structures/heap/skew_heap.py

../../../../../../../../asdf/installs/python/3.9.18/lib/python3.9/importlib/
__init__.py:127: in import_module
    return _bootstrap.gcd_import(name[level:], package, level)
        level       = 0
        name        = 'data_structures.heap.skew_heap'
        package     = None
<frozen importlib._bootstrap>:1030: in _gcd_import
    ???
        level       = 0
        name        = 'data_structures.heap.skew_heap'
        package     = None

```

```

<frozen importlib._bootstrap>:1007: in _find_and_load
    ???
    import_      = <function _gcd_import at 0x104f7c310>
    module       = <object object at 0x104f55060>
    name         = 'data_structures.heap.skew_heap'
<frozen importlib._bootstrap>:986: in _find_and_load_unlocked
    ???
    import_      = <function _gcd_import at 0x104f7c310>
    name         = 'data_structures.heap.skew_heap'
    parent       = 'data_structures.heap'
    parent_module = <module 'data_structures.heap' from
'/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/heap/__init__.py'>
    path         =
['/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/heap']
    spec         = ModuleSpec(name='data_structures.heap.skew_heap',
loader=<_frozen_importlib_external.SourceFileLoader object at
0x1072...origin='/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/
TheAlgorithms-Python/data_structures/heap/skew_heap.py'>)
<frozen importlib._bootstrap>:680: in _load_unlocked
    ???
    module       = <module 'data_structures.heap.skew_heap' from
'/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/heap/skew_heap.py'>
    spec         = ModuleSpec(name='data_structures.heap.skew_heap',
loader=<_frozen_importlib_external.SourceFileLoader object at
0x1072...origin='/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/
TheAlgorithms-Python/data_structures/heap/skew_heap.py'>)
<frozen importlib._bootstrap_external>:846: in exec_module
    ???
    module       = <module 'data_structures.heap.skew_heap' from
'/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/heap/skew_heap.py'>
    self         = <_frozen_importlib_external.SourceFileLoader object at
0x107211640>
<frozen importlib._bootstrap_external>:983: in get_code
    ???
    bytecode_path =
'/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/heap/__pycache__/skew_heap.cpython-39.pyc'
    check_source = True
    fullname     = 'data_structures.heap.skew_heap'
    hash_based   = False
    self         = <_frozen_importlib_external.SourceFileLoader object at
0x107211640>
    source_bytes = b'#!/usr/bin/env python3\n\nfrom __future__ import
annotations\n\nfrom collections.abc import Iterable, Iterator\nfrom...n
"""\n    self._root = None\n\n\nif __name__ == "__main__":\n    import
doctest\n\n    doctest.testmod()\n'
    source_hash  = None
    source_mtime = 1756904091
    source_path  =
'/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/heap/skew_heap.py'
    st           = {'mtime': 1756904091.5901415, 'size': 5632}
<frozen importlib._bootstrap_external>:913: in source_to_code
    ???
    _optimize    = -1
    data         = b'#!/usr/bin/env python3\n\nfrom __future__ import
annotations\n\nfrom collections.abc import Iterable, Iterator\nfrom...n
"""\n    self._root = None\n\n\nif __name__ == "__main__":\n    import
doctest\n\n    doctest.testmod()\n'
    path         =

```

```

/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/heap/skew_heap.py'
    self = <_frozen_importlib_external.SourceFileLoader object at
0x107211640>
<frozen_importlib._bootstrap>:228: in _call_with_frames_removed
    ???
E   File
"/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/heap/skew_heap.py", line 11
E       class SkewNode[T: bool]:
E           ^
E   SyntaxError: invalid syntax
    args = (b'#!/usr/bin/env python3\n\nfrom __future__ import
annotations\n\nfrom collections.abc import Iterable,
Iterator\nfro.../Users/rohiniivsenthil/Documents/rit-workspace/swen-777/
TheAlgorithms-Python/data_structures/heap/skew_heap.py', 'exec')
    f = <built-in function compile>
    kws = {'dont_inherit': True, 'optimize': -1}
_____ ERROR collecting data_structures/kd_tree/build_kdtree.py
_____
../data_structures/kd_tree/build_kdtree.py:12: in <module>
    def build_kdtree(points: list[list[float]], depth: int = 0) -> KDNode |
None:
E   TypeError: unsupported operand type(s) for |: 'type' and 'NoneType'
    KDNode = <class 'data_structures.kd_tree.kd_node.KDNode'>
    __builtins__ = <builtins>
    __cached__ =
'/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/kd_tree/__pycache__/build_kdtree.cpython-39.pyc'
    __doc__ = None
    __file__ =
'/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/kd_tree/build_kdtree.py'
    __loader__ = <_frozen_importlib_external.SourceFileLoader object at
0x107172220>
    __name__ = 'data_structures.kd_tree.build_kdtree'
    __package__ = 'data_structures.kd_tree'
    __spec__ = ModuleSpec(name='data_structures.kd_tree.build_kdtree',
loader=<_frozen_importlib_external.SourceFileLoader object at
...='/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-
Python/data_structures/kd_tree/build_kdtree.py')
_____ ERROR collecting data_structures/kd_tree/nearest_neighbour_search.py
_____
../data_structures/kd_tree/nearest_neighbour_search.py:13: in <module>
    root: KDNode | None, query_point: list[float]
E   TypeError: unsupported operand type(s) for |: 'type' and 'NoneType'
    KDNode = <class 'data_structures.kd_tree.kd_node.KDNode'>
    __builtins__ = <builtins>
    __cached__ =
'/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/kd_tree/__pycache__/nearest_neighbour_search.cpython-39.pyc'
    __doc__ = None
    __file__ =
'/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/kd_tree/nearest_neighbour_search.py'
    __loader__ = <_frozen_importlib_external.SourceFileLoader object at
0x107271c10>
    __name__ = 'data_structures.kd_tree.nearest_neighbour_search'
    __package__ = 'data_structures.kd_tree'
    __spec__ =
ModuleSpec(name='data_structures.kd_tree.nearest_neighbour_search',
loader=<_frozen_importlib_external.SourceFileLoade...inivsenthil/Documents/rit-
workspace/swen-777/TheAlgorithms-Python/data_structures/kd_tree/
nearest_neighbour_search.py')

```

```

_____ ERROR collecting data_structures/kd_tree/example/example_usage.py
_____.
.../data_structures/kd_tree/example/example_usage.py:11: in <module>
    from data_structures.kd_tree.build_kdtree import build_kdtree
    __builtins__ = <builtins>
    __cached__ =
'/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/kd_tree/example/__pycache__/example_usage.cpython-39.pyc'
    __doc__ = None
    __file__ =
'/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/kd_tree/example/example_usage.py'
    __loader__ = <_frozen_importlib_external.SourceFileLoader object at
0x107275970>
    __name__ = 'data_structures.kd_tree.example.example_usage'
    __package__ = 'data_structures.kd_tree.example'
    __spec__ =
ModuleSpec(name='data_structures.kd_tree.example.example_usage',
loader=<_frozen_importlib_external.SourceFileLoader
o...rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/kd_tree/example/example_usage.py>)
    np = <module 'numpy' from
'/Users/rohiniivsenthil/.asdf/installs/python/3.9.18/lib/python3.9/site-
packages/numpy/__init__.py'>
.../data_structures/kd_tree/build_kdtree.py:12: in <module>
    def build_kdtree(points: list[list[float]], depth: int = 0) -> KDNode |
None:
E   TypeError: unsupported operand type(s) for |: 'type' and 'NoneType'
    KDNode = <class 'data_structures.kd_tree.kd_node.KDNode'>
    __builtins__ = <builtins>
    __cached__ =
'/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/kd_tree/__pycache__/build_kdtree.cpython-39.pyc'
    __doc__ = None
    __file__ =
'/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/kd_tree/build_kdtree.py'
    __loader__ = <_frozen_importlib_external.SourceFileLoader object at
0x10764dd30>
    __name__ = 'data_structures.kd_tree.build_kdtree'
    __package__ = 'data_structures.kd_tree'
    __spec__ = ModuleSpec(name='data_structures.kd_tree.build_kdtree',
loader=<_frozen_importlib_external.SourceFileLoader object at
...=''/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-
Python/data_structures/kd_tree/build_kdtree.py'>)
_____ ERROR collecting data_structures/kd_tree/tests/test_kdtree.py
_____.
.../data_structures/kd_tree/tests/test_kdtree.py:12: in <module>
    from data_structures.kd_tree.build_kdtree import build_kdtree
    __builtins__ = <builtins>
    __cached__ =
'/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/kd_tree/tests/__pycache__/test_kdtree.cpython-39.pyc'
    __doc__ = None
    __file__ =
'/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/kd_tree/tests/test_kdtree.py'
    __loader__ = <_pytest.assertion.rewrite.AssertionRewritingHook object at
0x1069835b0>
    __name__ = 'data_structures.kd_tree.tests.test_kdtree'
    __package__ = 'data_structures.kd_tree.tests'
    __spec__ =
ModuleSpec(name='data_structures.kd_tree.tests.test_kdtree',
loader=<_pytest.assertion.rewrite.AssertionRewritingHook

```

```

...ers/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/kd_tree/tests/test_kdtree.py')
    np = <module 'numpy' from
'/Users/rohinivsenthil/.asdf/installs/python/3.9.18/lib/python3.9/site-
packages/numpy/__init__.py'>
    pytest = <module 'pytest' from
'/Users/rohinivsenthil/.asdf/installs/python/3.9.18/lib/python3.9/site-
packages/pytest/__init__.py'>
...../data_structures/kd_tree/build_kdtree.py:12: in <module>
    def build_kdtree(points: list[list[float]], depth: int = 0) -> KDNode |
None:
E   TypeError: unsupported operand type(s) for |: 'type' and 'NoneType'
    KDNode = <class 'data_structures.kd_tree.kd_node.KDNode'>
    __builtins__ = <builtins>
    __cached__ =
'/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/kd_tree/__pycache__/build_kdtree.cpython-39.pyc'
    __doc__ = None
    __file__ =
'/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/kd_tree/build_kdtree.py'
    __loader__ = <_frozen_importlib_external.SourceFileLoader object at
0x10766d220>
    __name__ = 'data_structures.kd_tree.build_kdtree'
    __package__ = 'data_structures.kd_tree'
    __spec__ = ModuleSpec(name='data_structures.kd_tree.build_kdtree',
loader=<_frozen_importlib_external.SourceFileLoader object at
...='/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-
Python/data_structures/kd_tree/build_kdtree.py')
_____ ERROR collecting data_structures/kd_tree/tests/test_kdtree.py
_____
...../data_structures/kd_tree/tests/test_kdtree.py:12: in <module>
    from data_structures.kd_tree.build_kdtree import build_kdtree
    __builtins__ = <builtins>
    __cached__ =
'/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/kd_tree/tests/__pycache__/test_kdtree.cpython-39.pyc'
    __doc__ = None
    __file__ =
'/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/kd_tree/tests/test_kdtree.py'
    __loader__ = <_pytest.assertion.rewrite.AssertionRewritingHook object at
0x1069835b0>
    __name__ = 'data_structures.kd_tree.tests.test_kdtree'
    __package__ = 'data_structures.kd_tree.tests'
    __spec__ =
ModuleSpec(name='data_structures.kd_tree.tests.test_kdtree',
loader=<_pytest.assertion.rewrite.AssertionRewritingHook
...ers/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/kd_tree/tests/test_kdtree.py')
    np = <module 'numpy' from
'/Users/rohinivsenthil/.asdf/installs/python/3.9.18/lib/python3.9/site-
packages/numpy/__init__.py'>
    pytest = <module 'pytest' from
'/Users/rohinivsenthil/.asdf/installs/python/3.9.18/lib/python3.9/site-
packages/pytest/__init__.py'>
...../data_structures/kd_tree/build_kdtree.py:12: in <module>
    def build_kdtree(points: list[list[float]], depth: int = 0) -> KDNode |
None:
E   TypeError: unsupported operand type(s) for |: 'type' and 'NoneType'
    KDNode = <class 'data_structures.kd_tree.kd_node.KDNode'>
    __builtins__ = <builtins>
    __cached__ =
'/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/

```

```

data_structures/kd_tree/__pycache__/build_kdtree.cpython-39.pyc'
    __doc__ = None
    __file__ =
'/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/kd_tree/build_kdtree.py'
    __loader__ = <_frozen_importlib_external.SourceFileLoader object at
0x10767b8e0>
    __name__ = 'data_structures.kd_tree.build_kdtree'
    __package__ = 'data_structures.kd_tree'
    __spec__ = ModuleSpec(name='data_structures.kd_tree.build_kdtree',
loader=<_frozen_importlib_external.SourceFileLoader object at
...='/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-
Python/data_structures/kd_tree/build_kdtree.py')
_____ ERROR collecting data_structures/linked_list/doubly_linked_list_two.py

../../../../../../../../.asdf/installs/python/3.9.18/lib/python3.9/importlib/
__init__.py:127: in import_module
    return _bootstrap._gcd_import(name[level:], package, level)
        level = 0
        name = 'data_structures.linked_list.doubly_linked_list_two'
        package = None
<frozen importlib._bootstrap>:1030: in _gcd_import
    ???
        level = 0
        name = 'data_structures.linked_list.doubly_linked_list_two'
        package = None
<frozen importlib._bootstrap>:1007: in _find_and_load
    ???
        import_ = <function _gcd_import at 0x104f7c310>
        module = <object object at 0x104f55060>
        name = 'data_structures.linked_list.doubly_linked_list_two'
<frozen importlib._bootstrap>:986: in _find_and_load_unlocked
    ???
        import_ = <function _gcd_import at 0x104f7c310>
        name = 'data_structures.linked_list.doubly_linked_list_two'
        parent = 'data_structures.linked_list'
        parent_module = <module 'data_structures.linked_list' from
'/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/linked_list/__init__.py'>
        path =
['/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/linked_list']
        spec =
ModuleSpec(name='data_structures.linked_list.doubly_linked_list_two',
loader=<_frozen_importlib_external.SourceFileLoa...ivsenthil/Documents/rit-
workspace/swen-777/TheAlgorithms-Python/data_structures/linked_list/
doubly_linked_list_two.py')
<frozen importlib._bootstrap>:680: in _load_unlocked
    ???
        module = <module
'data_structures.linked_list.doubly_linked_list_two' from
'/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/linked_list/doubly_linked_list_two.py'>
        spec =
ModuleSpec(name='data_structures.linked_list.doubly_linked_list_two',
loader=<_frozen_importlib_external.SourceFileLoa...ivsenthil/Documents/rit-
workspace/swen-777/TheAlgorithms-Python/data_structures/linked_list/
doubly_linked_list_two.py')
<frozen importlib._bootstrap_external>:846: in exec_module
    ???
        module = <module
'data_structures.linked_list.doubly_linked_list_two' from
'/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/linked_list/doubly_linked_list_two.py'>

```



```

self = <_frozen_importlib_external.SourceFileLoader object at
0x1076be460>
<frozen importlib._bootstrap_external>:983: in get_code
???
    bytecode_path =
'/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/linked_list/__pycache__/doubly_linked_list_two.cpython-39.pyc'
    check_source = True
    fullname = 'data_structures.linked_list.doubly_linked_list_two'
    hash_based = False
    self = <_frozen_importlib_external.SourceFileLoader object at
0x1076be460>
    source_bytes = b'"""\n- A linked list is similar to an array, it holds
values. However, links in a linked\n    list do not have index..._list)\n
\'30 10 40 20 50\''\n    """\n\n\nif __name__ == "__main__":\n    import
doctest\n\n    doctest.testmod()\n'
    source_hash = None
    source_mtime = 1756904091
    source_path =
'/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/linked_list/doubly_linked_list_two.py'
    st = {'mtime': 1756904091.5932815, 'size': 6906}
<frozen importlib._bootstrap_external>:913: in source_to_code
???
    _optimize = -1
    data = b'"""\n- A linked list is similar to an array, it holds
values. However, links in a linked\n    list do not have index..._list)\n
\'30 10 40 20 50\''\n    """\n\n\nif __name__ == "__main__":\n    import
doctest\n\n    doctest.testmod()\n'
    path =
'/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/linked_list/doubly_linked_list_two.py'
    self = <_frozen_importlib_external.SourceFileLoader object at
0x1076be460>
<frozen importlib._bootstrap>:228: in _call_with_frames_removed
???
E      File
"/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/linked_list/doubly_linked_list_two.py", line 19
E          class Node[DataType]:
E              ^
E      SyntaxError: invalid syntax
    args = (b'"""\n- A linked list is similar to an array, it holds
values. However, links in a linked\n    list do not have inde...l/Documents/rit-
workspace/swen-777/TheAlgorithms-Python/data_structures/linked_list/
doubly_linked_list_two.py', 'exec')
    f = <built-in function compile>
    kwds = {'dont_inherit': True, 'optimize': -1}
____ ERROR collecting data_structures/linked_list/floyds_cycle_detection.py
____
../data_structures/linked_list/floyds_cycle_detection.py:15: in <module>
    from typing import Any, Self
E   ImportError: cannot import name 'Self' from 'typing'
(/Users/rohiniivsenthil/.asdf/installs/python/3.9.18/lib/python3.9/typing.py)
    Any = typing.Any
    Iterator = <class 'collections.abc.Iterator'>
    __builtins__ = <builtins>
    __cached__ =
'/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/linked_list/__pycache__/floyds_cycle_detection.cpython-39.pyc'
    __doc__ = "\nFloyd's cycle detection algorithm is a popular algorithm
used to detect cycles\n\nin a linked list. It uses two point...thm will terminate.
\n\nFor more information:
https://en.wikipedia.org/wiki/Cycle_detection#Floyd's_tortoise_and_hare\n"

```

```

__file__ =
'/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/linked_list/floyds_cycle_detection.py'
__loader__ = <_frozen_importlib_external.SourceFileLoader object at
0x10767bfa0>
__name__ = 'data_structures.linked_list.floyds_cycle_detection'
__package__ = 'data_structures.linked_list'
__spec__ =
ModuleSpec(name='data_structures.linked_list.floyds_cycle_detection',
loader=<_frozen_importlib_external.SourceFileLoa...ivsenthil/Documents/rit-
workspace/swen-777/TheAlgorithms-Python/data_structures/linked_list/
floyds_cycle_detection.py')
dataclass = <function dataclass at 0x105aad5e0>
_____ ERROR collecting data_structures/linked_list/from_sequence.py
_____
../../data_structures/linked_list/from_sequence.py:23: in <module>
def make_linked_list(elements_list: list | tuple) -> Node:
E   TypeError: unsupported operand type(s) for |: 'type' and 'type'
Node = <class 'data_structures.linked_list.from_sequence.Node'>
__builtins__ = <builtins>
__cached__ =
'/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/linked_list/__pycache__/from_sequence.cpython-39.pyc'
__doc__ = '\nRecursive Program to create a Linked List from a
sequence and\nprint a string representation of it.\n'
__file__ =
'/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/linked_list/from_sequence.py'
__loader__ = <_frozen_importlib_external.SourceFileLoader object at
0x1076cb430>
__name__ = 'data_structures.linked_list.from_sequence'
__package__ = 'data_structures.linked_list'
__spec__ =
ModuleSpec(name='data_structures.linked_list.from_sequence',
loader=<_frozen_importlib_external.SourceFileLoader
objec...ers/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-
Python/data_structures/linked_list/from_sequence.py')
_____ ERROR collecting data_structures/linked_list/skip_list.py
_____
../../../../../../asdf/installs/python/3.9.18/lib/python3.9/importlib/
__init__.py:127: in _import_module
return _bootstrap._gcd_import(name[level:], package, level)
level = 0
name = 'data_structures.linked_list.skip_list'
package = None
<frozen importlib._bootstrap>:1030: in _gcd_import
???
level = 0
name = 'data_structures.linked_list.skip_list'
package = None
<frozen importlib._bootstrap>:1007: in _find_and_load
???
import_ = <function _gcd_import at 0x104f7c310>
module = <object object at 0x104f55060>
name = 'data_structures.linked_list.skip_list'
<frozen importlib._bootstrap>:986: in _find_and_load_unlocked
???
import_ = <function _gcd_import at 0x104f7c310>
name = 'data_structures.linked_list.skip_list'
parent = 'data_structures.linked_list'
parent_module = <module 'data_structures.linked_list' from
'/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/linked_list/__init__.py'>
path =

```

```

['/Users/rohiniysenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/linked_list']
    spec = ModuleSpec(name='data_structures.linked_list.skip_list',
loader=<_frozen_importlib_external.SourceFileLoader object
at...'/Users/rohiniysenthil/Documents/rit-workspace/swen-777/TheAlgorithms-
Python/data_structures/linked_list/skip_list.py')
<frozen importlib._bootstrap>:680: in _load_unlocked
    ???
    module = <module 'data_structures.linked_list.skip_list' from
'/Users/rohiniysenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/linked_list/skip_list.py'>
    spec = ModuleSpec(name='data_structures.linked_list.skip_list',
loader=<_frozen_importlib_external.SourceFileLoader object
at...'/Users/rohiniysenthil/Documents/rit-workspace/swen-777/TheAlgorithms-
Python/data_structures/linked_list/skip_list.py')
<frozen importlib._bootstrap_external>:846: in exec_module
    ???
    module = <module 'data_structures.linked_list.skip_list' from
'/Users/rohiniysenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/linked_list/skip_list.py'>
    self = <_frozen_importlib_external.SourceFileLoader object at
0x10772f520>
<frozen importlib._bootstrap_external>:983: in get_code
    ???
    bytecode_path =
'/Users/rohiniysenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/linked_list/__pycache__/skip_list.cpython-39.pyc'
    check_source = True
    fullname = 'data_structures.linked_list.skip_list'
    hash_based = False
    self = <_frozen_importlib_external.SourceFileLoader object at
0x10772f520>
    source_bytes = b'"""\nBased on "Skip Lists: A Probabilistic Alternative
to Balanced Trees" by William Pugh\nhttps://epaperpress.com/s...(4)\n\n
print(skip_list)\n\n\nif __name__ == "__main__":\n    import doctest\n\n
doctest.testmod()\n    main()\n'
    source_hash = None
    source_mtime = 1756904091
    source_path =
'/Users/rohiniysenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/linked_list/skip_list.py'
    st = {'mtime': 1756904091.5955348, 'size': 12601}
<frozen importlib._bootstrap_external>:913: in source_to_code
    ???
    _optimize = -1
    data = b'"""\nBased on "Skip Lists: A Probabilistic Alternative to
Balanced Trees" by William Pugh\nhttps://epaperpress.com/s...(4)\n\n
print(skip_list)\n\n\nif __name__ == "__main__":\n    import doctest\n\n
doctest.testmod()\n    main()\n'
    path =
'/Users/rohiniysenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/linked_list/skip_list.py'
    self = <_frozen_importlib_external.SourceFileLoader object at
0x10772f520>
<frozen importlib._bootstrap>:228: in _call_with_frames_removed
    ???
E     File
"/Users/rohiniysenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/linked_list/skip_list.py", line 16
E         class Node[KT, VT]:
E             ^
E     SyntaxError: invalid syntax
    args = (b'"""\nBased on "Skip Lists: A Probabilistic Alternative
to Balanced Trees" by William

```

```
Pugh\news://epaperpress.com/...rohiniivsenthil/Documents/rit-workspace/
swen-777/TheAlgorithms-Python/data_structures/linked_list/skip_list.py', 'exec')
f = <built-in function compile>
kwds = {'dont_inherit': True, 'optimize': -1}
_____ ERROR collecting data_structures/queues/queue_by_list.py
_____.py:127: in import_module
    return _bootstrap._gcd_import(name[level:], package, level)
    level = 0
    name = 'data_structures.queues.queue_by_list'
    package = None
<frozen importlib._bootstrap>:1030: in _gcd_import
    ???
    level = 0
    name = 'data_structures.queues.queue_by_list'
    package = None
<frozen importlib._bootstrap>:1007: in _find_and_load
    ???
    import_ = <function _gcd_import at 0x104f7c310>
    module = <object object at 0x104f55060>
    name = 'data_structures.queues.queue_by_list'
<frozen importlib._bootstrap>:986: in _find_and_load_unlocked
    ???
    import_ = <function _gcd_import at 0x104f7c310>
    name = 'data_structures.queues.queue_by_list'
    parent = 'data_structures.queues'
    parent_module = <module 'data_structures.queues' from
'/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/queues/__init__.py'>
    path =
['/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/queues']
    spec = ModuleSpec(name='data_structures.queues.queue_by_list',
loader=<_frozen_importlib_external.SourceFileLoader object at
...='/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-
Python/data_structures/queues/queue_by_list.py'>)
<frozen importlib._bootstrap>:680: in _load_unlocked
    ???
    module = <module 'data_structures.queues.queue_by_list' from
'/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/queues/queue_by_list.py'>
    spec = ModuleSpec(name='data_structures.queues.queue_by_list',
loader=<_frozen_importlib_external.SourceFileLoader object at
...='/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-
Python/data_structures/queues/queue_by_list.py'>)
<frozen importlib._bootstrap_external>:846: in exec_module
    ???
    module = <module 'data_structures.queues.queue_by_list' from
'/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/queues/queue_by_list.py'>
    self = <_frozen_importlib_external.SourceFileLoader object at
0x107b05f70>
<frozen importlib._bootstrap_external>:983: in get_code
    ???
    bytecode_path =
'/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/queues/__pycache__/queue_by_list.cpython-39.pyc'
    check_source = True
    fullname = 'data_structures.queues.queue_by_list'
    hash_based = False
    self = <_frozen_importlib_external.SourceFileLoader object at
0x107b05f70>
    source_bytes = b'""Queue represented by a Python list""\n\nfrom
```

```

collections.abc import Iterable\n\n\nclass QueueByList[T]:\n    def...\n\nreturn self.entries[0]\n\n\nif __name__ == "__main__":\n    from doctest import
testmod\n\n    testmod()\n'
    source_hash = None
    source_mtime = 1756904091
    source_path =
'/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/queues/queue_by_list.py'
    st = {'mtime': 1756904091.59729, 'size': 3037}
<frozen importlib._bootstrap_external>:913: in source_to_code
    ???
    _optimize = -1
    data = b'""""Queue represented by a Python list"""\n\nfrom
collections.abc import Iterable\n\n\nclass QueueByList[T]:\n    def...\n\nreturn self.entries[0]\n\n\nif __name__ == "__main__":\n    from doctest import
testmod\n\n    testmod()\n'
    path =
'/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/queues/queue_by_list.py'
    self = <_frozen_importlib_external.SourceFileLoader object at
0x107b05f70>
<frozen importlib._bootstrap>:228: in _call_with_frames_removed
    ???
E      File
"/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/queues/queue_by_list.py", line 6
E      class QueueByList[T]:
E              ^
E      SyntaxError: invalid syntax
    args = (b'""""Queue represented by a Python list"""\n\nfrom
collections.abc import Iterable\n\n\nclass QueueByList[T]:\n
de.../rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/queues/queue_by_list.py', 'exec')
    f = <built-in function compile>
    kwds = {'dont_inherit': True, 'optimize': -1}
_____ ERROR collecting data_structures/queues/queue_by_two_stacks.py

../../../../../../../../asdf/installs/python/3.9.18/lib/python3.9/importlib/
__init__.py:127: in import_module
    return _bootstrap._gcd_import(name[level:], package, level)
        level = 0
        name = 'data_structures.queues.queue_by_two_stacks'
        package = None
<frozen importlib._bootstrap>:1030: in _gcd_import
    ???
        level = 0
        name = 'data_structures.queues.queue_by_two_stacks'
        package = None
<frozen importlib._bootstrap>:1007: in _find_and_load
    ???
        import_ = <function _gcd_import at 0x104f7c310>
        module = <object object at 0x104f55060>
        name = 'data_structures.queues.queue_by_two_stacks'
<frozen importlib._bootstrap>:986: in _find_and_load_unlocked
    ???
        import_ = <function _gcd_import at 0x104f7c310>
        name = 'data_structures.queues.queue_by_two_stacks'
        parent = 'data_structures.queues'
        parent_module = <module 'data_structures.queues' from
'/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/queues/__init__.py'>
        path =
['/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/queues']

```

```

spec =
ModuleSpec(name='data_structures.queues.queue_by_two_stacks',
loader=<_frozen_importlib_external.SourceFileLoader
obje...rs/rohiniysenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/queues/queue_by_two_stacks.py')
<frozen importlib._bootstrap>:680: in _load_unlocked
???
    module = <module 'data_structures.queues.queue_by_two_stacks' from
'/Users/rohiniysenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/queues/queue_by_two_stacks.py'>
spec =
ModuleSpec(name='data_structures.queues.queue_by_two_stacks',
loader=<_frozen_importlib_external.SourceFileLoader
obje...rs/rohiniysenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/queues/queue_by_two_stacks.py')
<frozen importlib._bootstrap_external>:846: in exec_module
???
    module = <module 'data_structures.queues.queue_by_two_stacks' from
'/Users/rohiniysenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/queues/queue_by_two_stacks.py'>
    self = <_frozen_importlib_external.SourceFileLoader object at
0x107b25ee0>
<frozen importlib._bootstrap_external>:983: in get_code
???
    bytecode_path =
'/Users/rohiniysenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/queues/__pycache__/queue_by_two_stacks.cpython-39.pyc'
    check_source = True
    fullname = 'data_structures.queues.queue_by_two_stacks'
    hash_based = False
    self = <_frozen_importlib_external.SourceFileLoader object at
0x107b25ee0>
    source_bytes = b'""Queue implementation using two stacks""\n\nfrom
collections.abc import Iterable\n\n\nclass QueueByTwoStacks[T]:\...\n
return self._stack2.pop()\n\n\nif __name__ == "__main__":\n    from doctest
import testmod\n\n    testmod()\n'
    source_hash = None
    source_mtime = 1756904091
    source_path =
'/Users/rohiniysenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/queues/queue_by_two_stacks.py'
    st = {'mtime': 1756904091.597442, 'size': 2614}
<frozen importlib._bootstrap_external>:913: in source_to_code
???
    _optimize = -1
    data = b'""Queue implementation using two stacks""\n\nfrom
collections.abc import Iterable\n\n\nclass QueueByTwoStacks[T]:\...\n
return self._stack2.pop()\n\n\nif __name__ == "__main__":\n    from doctest
import testmod\n\n    testmod()\n'
    path =
'/Users/rohiniysenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/queues/queue_by_two_stacks.py'
    self = <_frozen_importlib_external.SourceFileLoader object at
0x107b25ee0>
<frozen importlib._bootstrap>:228: in _call_with_frames_removed
???
E      File
"/Users/rohiniysenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/queues/queue_by_two_stacks.py", line 6
E          class QueueByTwoStacks[T]:
E              ^
E      SyntaxError: invalid syntax
    args = (b'""Queue implementation using two stacks""\n\nfrom
collections.abc import Iterable\n\n\nclass

```

```

QueueByTwoStacks[T]:...ivsenhil/Documents/rit-workspace/swen-777/TheAlgorithms-
Python/data_structures/queues/queue_by_two_stacks.py', 'exec')
      f      = <built-in function compile>
      kwds    = {'dont_inherit': True, 'optimize': -1}
_____ ERROR collecting data_structures/stacks/balanced_parentheses.py
_____
../..data_structures/stacks/balanced_parentheses.py:1: in <module>
    from .stack import Stack
E      File
"/Users/rohiniivsenhil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/stacks/stack.py", line 16
E      class Stack[T]:
E          ^
E      SyntaxError: invalid syntax
      __builtins__ = <builtins>
      __cached__ =
'/Users/rohiniivsenhil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/stacks/__pycache__/balanced_parentheses.cpython-39.pyc'
      __doc__ = None
      __file__ =
'/Users/rohiniivsenhil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/stacks/balanced_parentheses.py'
      __loader__ = <_frozen_importlib_external.SourceFileLoader object at
0x107b24d60>
      __name__ = 'data_structures.stacks.balanced_parentheses'
      __package__ = 'data_structures.stacks'
      __spec__ =
ModuleSpec(name='data_structures.stacks.balanced_parentheses',
loader=<_frozen_importlib_external.SourceFileLoader
obj...s/rohiniivsenhil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/stacks/balanced_parentheses.py')
_____ ERROR collecting data_structures/stacks/dijkstras_two_stack_algorithm.py
_____
../..data_structures/stacks/dijkstras_two_stack_algorithm.py:37: in <module>
    from .stack import Stack
E      File
"/Users/rohiniivsenhil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/stacks/stack.py", line 16
E      class Stack[T]:
E          ^
E      SyntaxError: invalid syntax
      __author__ = 'Alexander Joslin'
      __builtins__ = <builtins>
      __cached__ =
'/Users/rohiniivsenhil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/stacks/__pycache__/dijkstras_two_stack_algorithm.cpython-39.pyc'
      __doc__ = '\nAuthor: Alexander Joslin\nGitHub:
github.com/echoaj\n\nExplanation: https://medium.com/@haleesammar/implemented-
in...t on\n      the operand stack represents the value of the expression.
\n\nNOTE: It only works with whole numbers.\n'
      __file__ =
'/Users/rohiniivsenhil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/stacks/dijkstras_two_stack_algorithm.py'
      __loader__ = <_frozen_importlib_external.SourceFileLoader object at
0x107b26c40>
      __name__ = 'data_structures.stacks.dijkstras_two_stack_algorithm'
      __package__ = 'data_structures.stacks'
      __spec__ =
ModuleSpec(name='data_structures.stacks.dijkstras_two_stack_algorithm',
loader=<_frozen_importlib_external.SourceFileL...senhil/Documents/rit-
workspace/swen-777/TheAlgorithms-Python/data_structures/stacks/
dijkstras_two_stack_algorithm.py')
      op      = <module 'operator' from
'/Users/rohiniivsenhil/.asdf/installs/python/3.9.18/lib/python3.9/operator.py'>

```

```

_____ ERROR collecting data_structures/stacks/infix_to_postfix_conversion.py
_____.
../data_structures/stacks/infix_to_postfix_conversion.py:9: in <module>
    from .balanced_parentheses import balanced_parentheses
        Literal = typing.Literal
        __annotations__ = {}
        __builtins__ = <builtins>
        __cached__ =
        '/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/stacks/__pycache__/infix_to_postfix_conversion.cpython-39.pyc'
        __doc__ =
        '\nhttps://en.wikipedia.org/wiki/Infix_notation\nhttps://en.wikipedia.org/wiki/
Reverse_Polish_notation\nhttps://en.wikipedia.org/wiki/Shunting-
yard_algorithm\n'
        __file__ =
        '/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/stacks/infix_to_postfix_conversion.py'
        __loader__ = <_frozen_importlib_external.SourceFileLoader object at
0x107b24d60>
        __name__ = 'data_structures.stacks.infix_to_postfix_conversion'
        __package__ = 'data_structures.stacks'
        __spec__ =
ModuleSpec(name='data_structures.stacks.infix_to_postfix_conversion',
loader=<_frozen_importlib_external.SourceFileLoa...ivsenthil/Documents/rit-
workspace/swen-777/TheAlgorithms-Python/data_structures/stacks/
infix_to_postfix_conversion.py>)
_____.
../data_structures/stacks/balanced_parentheses.py:1: in <module>
    from .stack import Stack
E       File
"/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/stacks/stack.py", line 16
E         class Stack[T]:
E             ^
E       SyntaxError: invalid syntax
        __builtins__ = <builtins>
        __cached__ =
        '/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/stacks/__pycache__/balanced_parentheses.cpython-39.pyc'
        __doc__ = None
        __file__ =
        '/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/stacks/balanced_parentheses.py'
        __loader__ = <_frozen_importlib_external.SourceFileLoader object at
0x107b26c70>
        __name__ = 'data_structures.stacks.balanced_parentheses'
        __package__ = 'data_structures.stacks'
        __spec__ =
ModuleSpec(name='data_structures.stacks.balanced_parentheses',
loader=<_frozen_importlib_external.SourceFileLoader
obj...s/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/stacks/balanced_parentheses.py>)
_____ ERROR collecting data_structures/stacks/postfix_evaluation.py
_____.
../data_structures/stacks/postfix_evaluation.py:40: in <module>
    def parse_token(token: str | float) -> float | str:
E   TypeError: unsupported operand type(s) for |: 'type' and 'type'
        OPERATORS = {'*': <function <lambda> at 0x107b515e0>, '+': <function
<lambda> at 0x107b51700>, '-': <function <lambda> at 0x107b51790>, '/':
<function <lambda> at 0x107b51670>, ...}
        UNARY_OP_SYMBOLS = ('-', '+')
        __builtins__ = <builtins>
        __cached__ =
        '/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/stacks/__pycache__/postfix_evaluation.cpython-39.pyc'

```



```

        __doc__ = '\nReverse Polish Nation is also known as Polish postfix
notation or simply postfix\nnotation.\nhttps://en.wikipedia.o...| 5,54\n
| pop(54) | 5\n | pop(5) | \n + | push(5+54) | 59\n\n
Result = 59\n'
        __file__ =
'/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/stacks/postfix_evaluation.py'
        __loader__ = <_frozen_importlib_external.SourceFileLoader object at
0x107b26eb0>
        __name__ = 'data_structures.stacks.postfix_evaluation'
        __package__ = 'data_structures.stacks'
        __spec__ =
ModuleSpec(name='data_structures.stacks.postfix_evaluation',
loader=<_frozen_importlib_external.SourceFileLoader
objec...ers/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-
Python/data_structures/stacks/postfix_evaluation.py')
_____ ERROR collecting data_structures/stacks/stack.py

../../../../../../../../.asdf/installs/python/3.9.18/lib/python3.9/importlib/
__init__.py:127: in import_module
    return _bootstrap.gcd_import(name[level:], package, level)
        level = 0
        name = 'data_structures.stacks.stack'
        package = None
<frozen importlib._bootstrap>:1030: in _gcd_import
    ???
        level = 0
        name = 'data_structures.stacks.stack'
        package = None
<frozen importlib._bootstrap>:1007: in _find_and_load
    ???
        import_ = <function _gcd_import at 0x104f7c310>
        module = <object object at 0x104f55060>
        name = 'data_structures.stacks.stack'
<frozen importlib._bootstrap>:986: in _find_and_load_unlocked
    ???
        import_ = <function _gcd_import at 0x104f7c310>
        name = 'data_structures.stacks.stack'
        parent = 'data_structures.stacks'
        parent_module = <module 'data_structures.stacks' from
'/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/stacks/__init__.py'>
        path =
['/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/stacks']
        spec = ModuleSpec(name='data_structures.stacks.stack',
loader=<_frozen_importlib_external.SourceFileLoader object at 0x107b50...,
origin='/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-
Python/data_structures/stacks/stack.py')
<frozen importlib._bootstrap>:680: in _load_unlocked
    ???
        module = <module 'data_structures.stacks.stack' from
'/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/stacks/stack.py'>
        spec = ModuleSpec(name='data_structures.stacks.stack',
loader=<_frozen_importlib_external.SourceFileLoader object at 0x107b50...,
origin='/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-
Python/data_structures/stacks/stack.py')
<frozen importlib._bootstrap_external>:846: in exec_module
    ???
        module = <module 'data_structures.stacks.stack' from
'/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/stacks/stack.py'>
        self = <_frozen_importlib_external.SourceFileLoader object at

```

```
0x107b50f70>
<frozen importlib._bootstrap_external>:983: in get_code
    ???
        bytecode_path =
'/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/stacks/__pycache__/stack.cpython-39.pyc'
        check_source = True
        fullname     = 'data_structures.stacks.stack'
        hash_based   = False
        self         = <_frozen_importlib_external.SourceFileLoader object at
0x107b50f70>
        source_bytes = b'from __future__ import annotations\n\nfrom typing
import TypeVar\n\nT = TypeVar("T")\n\n\nclass StackOverflowError(B...ert 55 not
in stack\n\n\nif __name__ == "__main__":\n    test_stack()\n\n    import
doctest\n\n    doctest.testmod()\n'
        source_hash = None
        source_mtime = 1756904091
        source_path =
'/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/stacks/stack.py'
        st          = {'mtime': 1756904091.5996814, 'size': 4725}
<frozen importlib._bootstrap_external>:913: in source_to_code
    ???
        _optimize   = -1
        data        = b'from __future__ import annotations\n\nfrom typing import
TypeVar\n\nT = TypeVar("T")\n\n\nclass StackOverflowError(B...ert 55 not in
stack\n\n\nif __name__ == "__main__":\n    test_stack()\n\n    import
doctest\n\n    doctest.testmod()\n'
        path        =
'/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/stacks/stack.py'
        self        = <_frozen_importlib_external.SourceFileLoader object at
0x107b50f70>
<frozen importlib._bootstrap>:228: in _call_with_frames_removed
    ???
E       File
"/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/stacks/stack.py", line 16
E           class Stack[T]:
E               ^
E SyntaxError: invalid syntax
        args        = (b'from __future__ import annotations\n\nfrom typing import
TypeVar\n\nT = TypeVar("T")\n\n\nclass StackOverflowError(...
'/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/stacks/stack.py', 'exec')
        f           = <built-in function compile>
        kwds        = {'dont_inherit': True, 'optimize': -1}
____ ERROR collecting data_structures/stacks/stack_with_doubly_linked_list.py
___
../../../../../../asdf/install/python/3.9.18/lib/python3.9/importlib/
__init__.py:127: in import_module
    return _bootstrap.gcd_import(name[level:], package, level)
        level      = 0
        name       = 'data_structures.stacks.stack_with_doubly_linked_list'
        package    = None
<frozen importlib._bootstrap>:1030: in _gcd_import
    ???
        level      = 0
        name       = 'data_structures.stacks.stack_with_doubly_linked_list'
        package    = None
<frozen importlib._bootstrap>:1007: in _find_and_load
    ???
        import_    = <function _gcd_import at 0x104f7c310>
        module     = <object object at 0x104f55060>
```

```

        name          = 'data_structures.stacks.stack_with_doubly_linked_list'
<frozen importlib._bootstrap>:986: in _find_and_load_unlocked
    ???
        import_       = <function _gcd_import at 0x104f7c310>
        name          = 'data_structures.stacks.stack_with_doubly_linked_list'
        parent        = 'data_structures.stacks'
        parent_module  = <module 'data_structures.stacks' from
'/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/stacks/__init__.py'>
        path          =
['/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/stacks']
        spec          =
ModuleSpec(name='data_structures.stacks.stack_with_doubly_linked_list',
loader=<_frozen_importlib_external.SourceFileL...senthil/Documents/rit-
workspace/swen-777/TheAlgorithms-Python/data_structures/stacks/
stack_with_doubly_linked_list.py'>)
<frozen importlib._bootstrap>:680: in _load_unlocked
    ???
        module        = <module
'data_structures.stacks.stack_with_doubly_linked_list' from
'/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/stacks/stack_with_doubly_linked_list.py'>
        spec          =
ModuleSpec(name='data_structures.stacks.stack_with_doubly_linked_list',
loader=<_frozen_importlib_external.SourceFileL...senthil/Documents/rit-
workspace/swen-777/TheAlgorithms-Python/data_structures/stacks/
stack_with_doubly_linked_list.py'>)
<frozen importlib._bootstrap_external>:846: in exec_module
    ???
        module        = <module
'data_structures.stacks.stack_with_doubly_linked_list' from
'/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/stacks/stack_with_doubly_linked_list.py'>
        self          = <_frozen_importlib_external.SourceFileLoader object at
0x107b709d0>
<frozen importlib._bootstrap_external>:983: in get_code
    ???
        bytecode_path =
'/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/stacks/__pycache__/stack_with_doubly_linked_list.cpython-39.pyc'
        check_source  = True
        fullname      = 'data_structures.stacks.stack_with_doubly_linked_list'
        hash_based    = False
        self          = <_frozen_importlib_external.SourceFileLoader object at
0x107b709d0>
        source_bytes  = b'# A complete working Python program to demonstrate
all\r\n# stack operations using a doubly linked list\r\n\r\nfrom ...ck()\r\n\r\n
# Print True if the stack is empty else False\r\n    print("\nstack is empty:",
stack.is_empty())\r\n'
        source_hash   = None
        source_mtime  = 1756904091
        source_path   =
'/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/stacks/stack_with_doubly_linked_list.py'
        st            = {'mtime': 1756904091.5999908, 'size': 3301}
<frozen importlib._bootstrap_external>:913: in source_to_code
    ???
        _optimize     = -1
        data          = b'# A complete working Python program to demonstrate
all\r\n# stack operations using a doubly linked list\r\n\r\nfrom ...ck()\r\n\r\n
# Print True if the stack is empty else False\r\n    print("\nstack is empty:",
stack.is_empty())\r\n'
        path          =

```

```

'/Users/rohini/senthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/stacks/stack_with_doubly_linked_list.py'
    self = <_frozen_importlib_external.SourceFileLoader object at
0x107b709d0>
<frozen importlib._bootstrap>:228: in _call_with_frames_removed
    ???
E     File
"/Users/rohini/senthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/stacks/stack_with_doubly_linked_list.py", line 11
E         class Node[T]:
E             ^
E     SyntaxError: invalid syntax
    args = (b'# A complete working Python program to demonstrate
all\r\n# stack operations using a doubly linked
list\r\n\r\nfrom...Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/stacks/stack_with_doubly_linked_list.py', 'exec')
    f = <built-in function compile>
    kwds = {'dont_inherit': True, 'optimize': -1}
_____ ERROR collecting data_structures/stacks/stack_with_singly_linked_list.py
../../../../../../../../.asdf/installs/python/3.9.18/lib/python3.9/importlib/
__init__.py:127: in import_module
    return _bootstrap._gcd_import(name[level:], package, level)
        level = 0
        name = 'data_structures.stacks.stack_with_singly_linked_list'
        package = None
<frozen importlib._bootstrap>:1030: in _gcd_import
    ???
        level = 0
        name = 'data_structures.stacks.stack_with_singly_linked_list'
        package = None
<frozen importlib._bootstrap>:1007: in _find_and_load
    ???
        import_ = <function _gcd_import at 0x104f7c310>
        module = <object object at 0x104f55060>
        name = 'data_structures.stacks.stack_with_singly_linked_list'
<frozen importlib._bootstrap>:986: in _find_and_load_unlocked
    ???
        import_ = <function _gcd_import at 0x104f7c310>
        name = 'data_structures.stacks.stack_with_singly_linked_list'
        parent = 'data_structures.stacks'
        parent_module = <module 'data_structures.stacks' from
'/Users/rohini/senthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/stacks/__init__.py'>
        path =
['/Users/rohini/senthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/stacks']
        spec =
ModuleSpec(name='data_structures.stacks.stack_with_singly_linked_list',
loader=<_frozen_importlib_external.SourceFileL...senthil/Documents/rit-
workspace/swen-777/TheAlgorithms-Python/data_structures/stacks/
stack_with_singly_linked_list.py'>)
<frozen importlib._bootstrap>:680: in _load_unlocked
    ???
        module = <module
'data_structures.stacks.stack_with_singly_linked_list' from
'/Users/rohini/senthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/stacks/stack_with_singly_linked_list.py'>
        spec =
ModuleSpec(name='data_structures.stacks.stack_with_singly_linked_list',
loader=<_frozen_importlib_external.SourceFileL...senthil/Documents/rit-
workspace/swen-777/TheAlgorithms-Python/data_structures/stacks/
stack_with_singly_linked_list.py'>)
<frozen importlib._bootstrap_external>:846: in exec_module

```

```

    ???
    module = <module
'data_structures.stacks.stack_with_singly_linked_list' from
'/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/stacks/stack_with_singly_linked_list.py'>
    self = <_frozen_importlib_external.SourceFileLoader object at
0x107b6a550>
<frozen importlib._bootstrap_external>:983: in get_code
    ???
    bytecode_path =
'/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/stacks/__pycache__/stack_with_singly_linked_list.cpython-39.pyc'
    check_source = True
    fullname = 'data_structures.stacks.stack_with_singly_linked_list'
    hash_based = False
    self = <_frozen_importlib_external.SourceFileLoader object at
0x107b6a550>
    source_bytes = b'""""A Stack using a linked list like
structure"""\r\n\r\nfrom __future__ import annotations\r\n\r\nfrom
collections.a... self.top = None\r\n\r\n\r\n\r\nif __name__ == "__main__":\r\n
from doctest import testmod\r\n\r\n\r\n    testmod()\r\n'
    source_hash = None
    source_mtime = 1756904091
    source_path =
'/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/stacks/stack_with_singly_linked_list.py'
    st = {'mtime': 1756904091.6001422, 'size': 3862}
<frozen importlib._bootstrap_external>:913: in source_to_code
    ???
    _optimize = -1
    data = b'""""A Stack using a linked list like
structure"""\r\n\r\nfrom __future__ import annotations\r\n\r\n\r\n\r\nfrom
collections.a... self.top = None\r\n\r\n\r\n\r\nif __name__ == "__main__":\r\n
from doctest import testmod\r\n\r\n\r\n    testmod()\r\n'
    path =
'/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/stacks/stack_with_singly_linked_list.py'
    self = <_frozen_importlib_external.SourceFileLoader object at
0x107b6a550>
<frozen importlib._bootstrap>:228: in _call_with_frames_removed
    ???
E     File
"/Users/rohiniivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/stacks/stack_with_singly_linked_list.py", line 11
E         class Node[T]:
E             ^
E     SyntaxError: invalid syntax
    args = (b'""""A Stack using a linked list like
structure"""\r\n\r\nfrom __future__ import annotations\r\n\r\n\r\n\r\nfrom
collections....Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/stacks/stack_with_singly_linked_list.py', 'exec')
    f = <built-in function compile>
    kwds = {'dont_inherit': True, 'optimize': -1}
===== short test summary info
=====
ERROR .././data_structures/arrays/product_sum.py - TypeError: unsupported
operand...
ERROR .././data_structures/binary_tree/binary_search_tree.py - ImportError:
canno...
ERROR .././data_structures/binary_tree/fenwick_tree.py - TypeError: unsupported
0...
ERROR .././data_structures/binary_tree/inorder_tree_traversal_2022.py -
TypeError...
ERROR .././data_structures/binary_tree/non_recursive_segment_tree.py - File


```

```


"/U...
ERROR ../../data_structures/hashing/double_hash.py - TypeError: unsupported
operan...
ERROR ../../data_structures/hashing/hash_map.py - File
"/Users/rohinivsenthil/Do...
ERROR ../../data_structures/hashing/hash_table.py - TypeError: unsupported
operand...
ERROR ../../data_structures/hashing/hash_table_with_linked_list.py - TypeError:
un...
ERROR ../../data_structures/hashing/quadratic_probing.py - TypeError:
unsupported ...
ERROR ../../data_structures/hashing/tests/test_hash_map.py - File
"/Users/rohini...
ERROR ../../data_structures/hashing/tests/test_hash_map.py
ERROR ../../data_structures/heap/heap.py - File
"/Users/rohinivsenthil/Documents...
ERROR ../../data_structures/heap/heap_generic.py - TypeError: unsupported
operand ...
ERROR ../../data_structures/heap/randomized_heap.py - File
"/Users/rohinivsenthil...
ERROR ../../data_structures/heap/skew_heap.py - File
"/Users/rohinivsenthil/Docu...
ERROR ../../data_structures/kd_tree/build_kdtree.py - TypeError: unsupported
opera...
ERROR ../../data_structures/kd_tree/nearest_neighbour_search.py - TypeError:
unsup...
ERROR ../../data_structures/kd_tree/example/example_usage.py - TypeError:
unsuppor...
ERROR ../../data_structures/kd_tree/tests/test_kdtree.py - TypeError:
unsupported ...
ERROR ../../data_structures/kd_tree/tests/test_kdtree.py - TypeError:
unsupported ...
ERROR ../../data_structures/linked_list/doubly_linked_list_two.py - File
"/Users...
ERROR ../../data_structures/linked_list/floyds_cycle_detection.py - ImportError:
C...
ERROR ../../data_structures/linked_list/from_sequence.py - TypeError:
unsupported ...
ERROR ../../data_structures/linked_list/skip_list.py - File
"/Users/rohinivsenthil...
ERROR ../../data_structures/queues/queue_by_list.py - File
"/Users/rohinivsenthil...
ERROR ../../data_structures/queues/queue_by_two_stacks.py - File
"/Users/rohiniv...
ERROR ../../data_structures/stacks/balanced_parentheses.py - File
"/Users/rohini...
ERROR ../../data_structures/stacks/dijkstras_two_stack_algorithm.py - File
"/Use...
ERROR ../../data_structures/stacks/infix_to_postfix_conversion.py - File
"/Users...
ERROR ../../data_structures/stacks/postfix_evaluation.py - TypeError:
unsupported ...
ERROR ../../data_structures/stacks/stack.py - File
"/Users/rohinivsenthil/Docume...
ERROR ../../data_structures/stacks/stack_with_doubly_linked_list.py - File
"/Use...
ERROR ../../data_structures/stacks/stack_with_singly_linked_list.py - File
"/Use...
!!!!!!!!!!!!!!!!!!!! Interrupted: 34 errors during
collection !!!!!!!!!!!!!!!!!!!!!
===== 34 errors in 0.76s
=====
Combined data file .coverage.Rohinis-MacBook-Air.local.66822.369913
⚠ Error parsing

```


/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/hashing/hash_map.py: invalid syntax (hash_map.py, line 20)

 Running doctests in:



/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/hashing/quadratic_probing.py

 Import failed for


/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/hashing/quadratic_probing.py: unsupported operand type(s) for |:
'type' and 'NoneType'

 Running doctests in:



/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/hashing/number_theory/prime_numbers.py


 Passed: 9,  Failed: 0


 Coverage: 38.9%

 Running doctests in:



/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/trie/radix_tree.py


 Passed: 9,  Failed: 0


 Coverage: 88.4%

 Running doctests in:


/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/trie/trie.py

 Passed: 1,  Failed: 0


 Coverage: 86.6%

 Running doctests in:


/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/heap/min_heap.py

 Import failed for


/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/heap/min_heap.py: No module named 'data_structures.heap.min_he'

 Error parsing


/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/heap/heap.py: invalid syntax (heap.py, line 25)

 Running doctests in:


/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/heap/heap_generic.py

 Import failed for


/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/heap/heap_generic.py: unsupported operand type(s) for |:
'ABCMeta' and 'NoneType'

 Error parsing


/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/heap/skew_heap.py: invalid syntax (skew_heap.py, line 11)

 Error parsing


/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/heap/randomized_heap.py: invalid syntax (randomized_heap.py,
line 12)

 Running doctests in:

/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/heap/binomial_heap.py

 Import failed for

/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/heap/binomial_heap.py: No module named
'data_structures.heap.binomial_he'

 Running doctests in:

/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/

data_structures/heap/max_heap.py

✗ Import failed for

/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/heap/max_heap.py: No module named 'data_structures.heap.max_he'

📄 Running doctests in:

/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/arrays/median_two_array.py

✗ Import failed for

/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/arrays/median_two_array.py: No module named
'data_structures.arrays.median_two_arra'

📄 Running doctests in:

/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/arrays/kth_largest_element.py

✅ Passed: 15, ✗ Failed: 0

📊 Coverage: 86.7%

📄 Running doctests in:

/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/arrays/sparse_table.py

✅ Passed: 9, ✗ Failed: 0

📊 Coverage: 88.5%

📄 Running doctests in:

/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/arrays/find_triplets_with_0_sum.py

✅ Passed: 8, ✗ Failed: 0

📊 Coverage: 90.0%

📄 Running doctests in:

/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/arrays/permutations.py

✅ Passed: 2, ✗ Failed: 0

📊 Coverage: 85.7%

📄 Running doctests in:

/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/arrays/equilibrium_index_in_array.py

✗ Import failed for

/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/arrays/equilibrium_index_in_array.py: No module named
'data_structures.arrays.equilibrium_index_in_arra'

📄 Running doctests in:

/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/arrays/index_2d_array_in_1d.py

✅ Passed: 17, ✗ Failed: 0

📊 Coverage: 89.5%

📄 Running doctests in:

/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/arrays/product_sum.py

✗ Import failed for

/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/arrays/product_sum.py: unsupported operand type(s) for |: 'type'
and 'type'

📄 Running doctests in:

/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/arrays/monotonic_array.py

✗ Import failed for

/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/

data_structures/arrays/monotonic_array.py: No module named
'data_structures.arrays.monotonic_arra'

Running doctests in:
/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/arrays/pairs_with_given_sum.py
Passed: 3, Failed: 0
Coverage: 71.4%

Running doctests in:
/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/arrays/prefix_sum.py
Passed: 13, Failed: 0
Coverage: 92.3%

Running doctests in:
/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/queues/linked_queue.py
Passed: 43, Failed: 0
Coverage: 93.3%
Error parsing
/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/queues/queue_by_two_stacks.py: invalid syntax
(queue_by_two_stacks.py, line 6)

Running doctests in:
/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/queues/double_ended_queue.py
Passed: 134, Failed: 0
Coverage: 89.7%

Running doctests in:
/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/queues/circular_queue_linked_list.py
Passed: 30, Failed: 0
Coverage: 93.2%

Running doctests in:
/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/queues/circular_queue.py
Passed: 23, Failed: 0
Coverage: 96.4%
Error parsing
/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/queues/queue_by_list.py: invalid syntax (queue_by_list.py, line
6)

Running doctests in:
/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/queues/priority_queue_using_list.py
Passed: 46, Failed: 0
Coverage: 41.2%

Running pytest in:
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data_structures/
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data_structures/__init__.py 0 0
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data_structures/binary_tree/binary_tree_traversals.py	102	81
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data_structures/binary_tree/diff_views_of_binary_tree.py	78	64
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data_structures/binary_tree/distribute_coins.py	38	25
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data_structures/binary_tree/fenwick_tree.py	68	65
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data_structures/binary_tree/flatten_binarytree_to_linkedlist.py	39	32
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data_structures/binary_tree/floor_and_ceiling.py	33	21
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data_structures/binary_tree/is_sorted.py	29	17
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data_structures/binary_tree/is_sum_tree.py	64	39
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data_structures/binary_tree/lazy_segment_tree.py	74	63
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data_structures/binary_tree/maximum_fenwick_tree.py	33	24
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data_structures/binary_tree/maximum_sum_bst.py	27	15
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data_structures/binary_tree/merge_two_binary_trees.py	38	31
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data_structures/binary_tree/mirror_binary_tree.py	52	37
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data_structures/binary_tree/number_of_possible_binary_trees.py	23	18
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data_structures/binary_tree/red_black_tree.py	436	390
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data_structures/binary_tree/serialize_deserialize_binary_tree.py	43	27
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data_structures/binary_tree/symmetric_tree.py	40	28

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data_structures/linked_list/singly_linked_list.py	169	140
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data_structures/linked_list/swap_nodes.py	44	28
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data_structures/queues/__init__.py	0	0
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data_structures/queues/circular_queue.py	28	21
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data_structures/queues/circular_queue_linked_list.py	59	45
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data_structures/queues/double_ended_queue.py	107	78
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data_structures/queues/linked_queue.py	45	29
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data_structures/queues/priority_queue_using_list.py	85	68
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data_structures/queues/queue_on_pseudo_stack.py	31	22
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data_structures/stacks/__init__.py	0	0
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data_structures/stacks/balanced_parentheses.py	18	17
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data_structures/stacks/dijkstras_two_stack_algorithm.py	25	22
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data_structures/stacks/infix_to_postfix_conversion.py	48	46
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data_structures/stacks/infix_to_prefix_conversion.py	44	41
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data_structures/stacks/lexicographical_numbers.py	15	12
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data_structures/stacks/next_greater_element.py	49	42
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data_structures/stacks/postfix_evaluation.py	54	51
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data_structures/stacks/prefix_evaluation.py	25	20
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data_structures/stacks/stack_using_two_queues.py	45	34
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data_structures/stacks/stock_span_problem.py	18	0
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data_structures/suffix_tree/__init__.py	0	0

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data_structures/suffix_tree/example/__init__.py          0      0
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data_structures/suffix_tree/example/example_usage.py      10      7
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data_structures/suffix_tree/suffix_tree.py               28     22
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/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/suffix_tree/suffix_tree_node.py           8      5
38%
/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/suffix_tree/tests/__init__.py             0      0
100%
/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/suffix_tree/tests/test_suffix_tree.py     27     17
37%
/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/trie/__init__.py                          0      0
100%
/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/trie/radix_tree.py                       95     83
13%
/Users/rohinivsenthil/Documents/rit-workspace/swen-777/TheAlgorithms-Python/
data_structures/trie/trie.py                             67     55
18%
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TOTAL
5333    4269    20%

```

 Coverage: 20.0%

COMBINED SUMMARY REPORT

Type	File	Passed	Failed
doctest	disjoint_set.py	1	0
90.7%			
doctest	alternate_disjoint_set.py	8	0
86.7%			
doctest	next_greater_element.py	3	0
79.6%			
doctest	prefix_evaluation.py	12	0
84.0%			
doctest	dijkstras_two_stack_algorithm.py	0	1
0.0%			
doctest	infix_to_prefix_conversion.py	10	0
88.6%			
doctest	balanced_parentheses.py	0	1
0.0%			
doctest	stock_span_problem.py	6	0
100.0%			
doctest	largest_rectangle_histogram.py	4	0
86.7%			

doctest 0.0%	infix_to_postfix_conversion.py	0	1	
doctest 80.0%	lexicographical_numbers.py	5	0	
doctest 37.8%	stack_using_two_queues.py	11	0	
doctest 0.0%	postfix_evaluation.py	0	1	
doctest 81.0%	binary_tree_mirror.py	4	0	
doctest 89.7%	flatten_binarytree_to_linkedlist.py	24	0	
doctest 95.2%	wavelet_tree.py	26	0	
doctest 57.9%	merge_two_binary_trees.py	16	0	
doctest 74.0%	avl_tree.py	10	0	
doctest 0.0%	treap.py	0	1	
doctest 86.5%	mirror_binary_tree.py	15	0	
doctest 79.2%	segment_tree_other.py	32	0	
doctest 89.1%	is_sum_tree.py	21	0	
doctest 0.0%	fenwick_tree.py	0	1	
doctest 0.0%	binary_search_tree.py	0	1	
doctest 81.4%	binary_tree_traversals.py	12	0	
doctest 77.1%	red_black_tree.py	1	0	
doctest 84.8%	floor_and_ceiling.py	12	0	
doctest 90.3%	binary_tree_path_sum.py	21	0	
doctest 90.0%	symmetric_tree.py	18	0	
doctest 97.4%	diff_views_of_binary_tree.py	9	0	
doctest 0.0%	inorder_tree_traversal_2022.py	0	1	
doctest 94.7%	distribute_coins.py	6	0	
doctest 96.4%	basic_binary_tree.py	12	0	
doctest 76.3%	segment_tree.py	12	0	
doctest 71.7%	lowest_common_ancestor.py	33	0	
doctest 61.5%	diameter_of_binary_tree.py	14	0	
doctest 43.2%	lazy_segment_tree.py	14	0	
doctest 93.0%	serialize_deserialize_binary_tree.py	19	0	
doctest 93.9%	maximum_fenwick_tree.py	21	0	
doctest 34.6%	binary_search_tree_recursive.py	57	0	
doctest 92.6%	maximum_sum_bst.py	19	0	

doctest 89.5%	binary_tree_node_sum.py	11	0	
doctest 82.6%	number_of_possible_binary_trees.py	8	0	
doctest 65.5%	is_sorted.py	13	0	
doctest 86.7%	merge_two_lists.py	12	0	
doctest 95.9%	is_palindrome.py	16	0	
doctest 95.7%	__init__.py	25	0	
doctest 82.8%	middle_element_of_linked_list.py	14	0	
doctest 76.2%	rotate_to_the_right.py	21	0	
doctest 0.0%	from_sequence.py	0	1	
doctest 92.5%	circular_linked_list.py	1	0	
doctest 77.3%	swap_nodes.py	38	0	
doctest 0.0%	reverse_k_group.py	0	1	
doctest 0.0%	floyds_cycle_detection.py	0	1	
doctest 84.3%	doubly_linked_list.py	35	0	
doctest 87.2%	print_reverse.py	31	0	
doctest 0.0%	deque_doubly.py	0	1	
doctest 0.0%	has_loop.py	0	1	
doctest 79.3%	singly_linked_list.py	118	0	
doctest 100.0%	bloom_filter.py	19	0	
doctest 0.0%	hash_table.py	0	1	
doctest 0.0%	double_hash.py	0	1	
doctest 0.0%	quadratic_probing.py	0	1	
doctest 38.9%	prime_numbers.py	9	0	
doctest 88.4%	radix_tree.py	9	0	
doctest 86.6%	trie.py	1	0	
doctest 0.0%	min_heap.py	0	1	
doctest 0.0%	heap_generic.py	0	1	
doctest 0.0%	binomial_heap.py	0	1	
doctest 0.0%	max_heap.py	0	1	
doctest 0.0%	median_two_array.py	0	1	
doctest 86.7%	kth_largest_element.py	15	0	
doctest 88.5%	sparse_table.py	9	0	

doctest	find_triplets_with_0_sum.py	8	0	
90.0%				
doctest	permutations.py	2	0	
85.7%				
doctest	equilibrium_index_in_array.py	0	1	
0.0%				
doctest	index_2d_array_in_1d.py	17	0	
89.5%				
doctest	product_sum.py	0	1	
0.0%				
doctest	monotonic_array.py	0	1	
0.0%				
doctest	pairs_with_given_sum.py	3	0	
71.4%				
doctest	prefix_sum.py	13	0	
92.3%				
doctest	linked_queue.py	43	0	
93.3%				
doctest	double_ended_queue.py	134	0	
89.7%				
doctest	circular_queue_linked_list.py	30	0	
93.2%				
doctest	circular_queue.py	23	0	
96.4%				
doctest	priority_queue_using_list.py	46	0	
41.2%				
pytest	suffix_tree.cpython-39.pyc	-	-	
20.0%				
+-----+	+-----+	+-----+	+-----+	
+-----+				
TOTAL		1212	24	
58.8%				
+-----+	+-----+	+-----+	+-----+	
+-----+				