

# CodeAssistant 报告

(由自动审查与测试生成系统输出)

## Contents

<b>1</b>	<b>代码审查 (Review)</b>	<b>1</b>
1.1	概览	1
1.2	严重性分布	1
1.3	工具分布	1
1.4	DS 规则分布	2
1.5	Top 20 问题	2
1.6	复杂度摘要	3
<b>2</b>	<b>测试生成 (TestGen)</b>	<b>211</b>
2.1	指标	211
2.2	覆盖率报告	212

---

## 1 代码审查 (Review)

### 1.1 概览

- 问题总数: 961
- 高/中/低: 305 / 6 / 650
- 工具数: 2
- DS 规则命中总数: 308

### 1.2 严重性分布

- low: 650
- high: 305
- medium: 6

### 1.3 工具分布

- rule-plugin: 653
- ds-rule: 308

## 1.4 DS 规则分布

- DS\_PANDAS\_SETTINGWITHCOPY: 249
- DS\_RANDOM\_SEED: 50
- DS\_HYPERPARAMS\_HARDCODED: 4
- DS\_SKLEARN\_RANDOM\_STATE: 3
- DS\_PIPELINE\_SUGGEST: 2

## 1.5 Top 20 问题

1. [low] rule-plugin PY\_LOOP\_INVARIANT  
位置: `backtracking/all\_permutations.py:68`  
说明: 考虑在循环外计算长度, 避免每次迭代都重新计算
2. [low] rule-plugin PY\_LOOP\_INVARIANT  
位置: `backtracking/combination\_sum.py:34`  
说明: 考虑在循环外计算长度, 避免每次迭代都重新计算
3. [low] rule-plugin PY\_LOOP\_INVARIANT  
位置: `backtracking/combination\_sum.py:38`  
说明: 考虑在循环外计算长度, 避免每次迭代都重新计算
4. [high] ds-rule DS\_PANDAS\_SETTINGWITHCOPY  
位置: `backtracking/crossword\_puzzle\_solver.py:54`  
说明: Chained indexing may trigger SettingWithCopy; use `.loc/.iloc`.
5. [high] ds-rule DS\_PANDAS\_SETTINGWITHCOPY  
位置: `backtracking/crossword\_puzzle\_solver.py:56`  
说明: Chained indexing may trigger SettingWithCopy; use `.loc/.iloc`.
6. [high] ds-rule DS\_PANDAS\_SETTINGWITHCOPY  
位置: `backtracking/crossword\_puzzle\_solver.py:77`  
说明: Chained indexing may trigger SettingWithCopy; use `.loc/.iloc`.
7. [high] ds-rule DS\_PANDAS\_SETTINGWITHCOPY  
位置: `backtracking/crossword\_puzzle\_solver.py:79`  
说明: Chained indexing may trigger SettingWithCopy; use `.loc/.iloc`.
8. [low] rule-plugin PY\_LOOP\_INVARIANT  
位置: `backtracking/crossword\_puzzle\_solver.py:27`  
说明: 考虑在循环外计算长度, 避免每次迭代都重新计算
9. [low] rule-plugin PY\_LOOP\_INVARIANT  
位置: `backtracking/crossword\_puzzle\_solver.py:29`  
说明: 考虑在循环外计算长度, 避免每次迭代都重新计算
10. [low] rule-plugin PY\_LOOP\_INVARIANT  
位置: `backtracking/crossword\_puzzle\_solver.py:31`  
说明: 考虑在循环外计算长度, 避免每次迭代都重新计算

11. [low] rule-plugin PY\_LOOP\_INVARIANT  
位置: backtracking/crossword\\_puzzle\\_solver.py:75  
说明: 考虑在循环外计算长度, 避免每次迭代都重新计算
12. [low] rule-plugin PY\_LOOP\_INVARIANT  
位置: backtracking/crossword\\_puzzle\\_solver.py:106  
说明: 考虑在循环外计算长度, 避免每次迭代都重新计算
13. [low] rule-plugin PY\_LOOP\_INVARIANT  
位置: backtracking/crossword\\_puzzle\\_solver.py:107  
说明: 考虑在循环外计算长度, 避免每次迭代都重新计算
14. [low] rule-plugin PY\_LOOP\_INVARIANT  
位置: backtracking/crossword\\_puzzle\\_solver.py:107  
说明: 考虑在循环外计算长度, 避免每次迭代都重新计算
15. [low] rule-plugin PY\_LOOP\_INVARIANT  
位置: backtracking/generate\\_parentheses\\_iterative.py:46  
说明: 考虑在循环外计算长度, 避免每次迭代都重新计算
16. [low] rule-plugin PY\_LOOP\_INVARIANT  
位置: backtracking/hamiltonian\\_cycle.py:98  
说明: 考虑在循环外计算长度, 避免每次迭代都重新计算
17. [high] ds-rule DS\_PANDAS\_SETTINGWITHCOPY  
位置: backtracking/knight\\_tour.py:63  
说明: Chained indexing may trigger SettingWithCopy; use .loc/.iloc.
18. [high] ds-rule DS\_PANDAS\_SETTINGWITHCOPY  
位置: backtracking/knight\\_tour.py:66  
说明: Chained indexing may trigger SettingWithCopy; use .loc/.iloc.
19. [high] ds-rule DS\_PANDAS\_SETTINGWITHCOPY  
位置: backtracking/knight\\_tour.py:89  
说明: Chained indexing may trigger SettingWithCopy; use .loc/.iloc.
20. [high] ds-rule DS\_PANDAS\_SETTINGWITHCOPY  
位置: backtracking/knight\\_tour.py:92  
说明: Chained indexing may trigger SettingWithCopy; use .loc/.iloc.

## 1.6 复杂度摘要

- 来源: Radon Cyclomatic Complexity (CC)
- 说明: 等级通常为 A (简单) 到 F (复杂), 括号内为复杂度分数

文件	类型	符号 (函数/方法)	等级	分数
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/audio\_filters/butterworth\_filter.py	F	make_lowpass	A	1

(续下页)

文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/audio/_filters/butterworth/_filter.py	F	make_highpass	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/audio/_filters/butterworth/_filter.py	F	make_bandpass	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/audio/_filters/butterworth/_filter.py	F	make_allpass	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/audio/_filters/butterworth/_filter.py	F	make_peak	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/audio/_filters/butterworth/_filter.py	F	make_lowshelf	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/audio/_filters/butterworth/_filter.py	F	make_highshelf	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/audio/_filters/iir/_filter.py	M	IIRFilter.set_coefficients	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/audio/_filters/iir/_filter.py	C	IIRFilter	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/audio/_filters/iir/_filter.py	M	IIRFilter.process	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/audio/_filters/iir/_filter.py	M	IIRFilter.__init__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/audio/_filters/show/_response.py	F	show_frequency_response	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/audio/_filters/show/_response.py	F	show_phase_response	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/audio/_filters/show/_response.py	C	FilterType	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/audio/_filters/show/_response.py	F	get_bounds	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/audio/_filters/show/_response.py	M	FilterType.process	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/backtracking/all_combinations.py	F	generate_all_combinations	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/backtracking/all_combinations.py	F	create_all_state	A	3

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/backtracking/all_combinations.py	F	combination_lists	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/backtracking/all_permutations.py	F	create_state_space_tree	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/backtracking/all_permutations.py	F	generate_all_permutations	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/backtracking/all_subsequences.py	F	create_state_space_tree	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/backtracking/all_subsequences.py	F	generate_all_subsequences	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/backtracking/coloring.py	F	util_color	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/backtracking/coloring.py	F	valid_coloring	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/backtracking/coloring.py	F	color	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/backtracking/combination_sum.py	F	backtrack	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/backtracking/combination_sum.py	F	combination_sum	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/backtracking/combination_sum.py	F	main	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/backtracking/crossword_puzzle_solver.py	F	solve_crossword	B	8
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/backtracking/crossword_puzzle_solver.py	F	is_valid	B	7
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/backtracking/crossword_puzzle_solver.py	F	place_word	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/backtracking/crossword_puzzle_solver.py	F	remove_word	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/backtracking/generate_parentheses.py	F	backtrack	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/backtracking/generate_parentheses.py	F	generate_parenthesis	A	1

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/backtracking/generate_parentheses_iterative.py	F	generate_parentheses_iterative	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/backtracking/hamiltonian_cycle.py	F	util_hamilton_cycle	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/backtracking/hamiltonian_cycle.py	F	valid_connection	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/backtracking/hamiltonian_cycle.py	F	hamilton_cycle	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/backtracking/knight_tour.py	F	open_knight_tour	B	6
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/backtracking/knight_tour.py	F	open_knight_tour_helper	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/backtracking/knight_tour.py	F	get_valid_pos	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/backtracking/knight_tour.py	F	is_complete	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/backtracking/match_word_pattern.py	F	match_word_pattern	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/backtracking/minimax.py	F	minimax	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/backtracking/minimax.py	F	main	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/backtracking/n_queens.py	F	is_safe	B	6
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/backtracking/n_queens.py	F	solve	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/backtracking/n_queens.py	F	printboard	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/backtracking/n_queens_math.py	F	depth_first_search	B	7
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/backtracking/n_queens_math.py	F	n_queens_solution	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/backtracking/power_sum.py	F	backtrack	A	4

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/backtracking/power\_sum.py	F	solve	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/backtracking/rat\_in\_maze.py	F	run_maze	C	14
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/backtracking/rat\_in\_maze.py	F	solve_maze	B	8
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/backtracking/sudoku.py	F	is_safe	B	6
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/backtracking/sudoku.py	F	sudoku	A	5
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/backtracking/sudoku.py	F	find_empty_location	A	4
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/backtracking/sudoku.py	F	print_solution	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/backtracking/sum\_of\_subsets.py	F	create_state_space_tree	A	5
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/backtracking/sum\_of\_subsets.py	F	generate_sum_of_subsets_solutions	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/backtracking/word\_break.py	F	backtrack	A	5
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/backtracking/word\_break.py	F	word_break	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/backtracking/word\_ladder.py	F	backtrack	B	6
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/backtracking/word\_ladder.py	F	word_ladder	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/backtracking/word\_search.py	F	word_exists	C	14
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/backtracking/word\_search.py	F	exists_word	B	8
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/backtracking/word\_search.py	F	get_point_key	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/bit\_manipulation/binary\_and\_operator.py	F	binary_and	A	5

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/bit/_manipulation/_binary/_coded/_decimal.py	F	binary_coded_decimal	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/bit/_manipulation/_binary/_count/_setbits.py	F	binary_count_setbits	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/bit/_manipulation/_binary/_count/_trailing/_zeros.py	F	binary_count_trailing_zeros	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/bit/_manipulation/_binary/_or/_operator.py	F	binary_or	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/bit/_manipulation/_binary/_shifts.py	F	logical_right_shift	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/bit/_manipulation/_binary/_shifts.py	F	logical_left_shift	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/bit/_manipulation/_binary/_shifts.py	F	arithmetic_right_shift	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/bit/_manipulation/_binary/_twos/_complement.py	F	twos_complement	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/bit/_manipulation/_binary/_xor/_operator.py	F	binary_xor	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/bit/_manipulation/_bitwise/_addition/_recursive.py	F	bitwise_addition_recursive	B	6
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/bit/_manipulation/_count/_1s/_brian/_kernighan/_method.py	F	get_1s_count	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/bit/_manipulation/_count/_number/_of/_one/_bits.py	F	get_set_bits_count_using_modulo_operator	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/bit/_manipulation/_count/_number/_of/_one/_bits.py	F	get_set_bits_count_using_brian_kernighans_algorithm	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/bit/_manipulation/_count/_number/_of/_one/_bits.py	F	benchmark	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/bit/_manipulation/_excess/_3/_code.py	F	excess_3_code	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/bit/_manipulation/_find/_previous/_power/_of/_two.py	F	find_previous_power_of_two	B	6

（续下页）



文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/bit/_manipulation/find/_unique/_number.py	F	find_unique_number	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/bit/_manipulation/gray/_code/_sequence.py	F	gray_code_sequence_string	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/bit/_manipulation/gray/_code/_sequence.py	F	gray_code	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/bit/_manipulation/highest/_set/_bit.py	F	get_highest_set_bit_position	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/bit/_manipulation/index/_of/_rightmost/_set/_bit.py	F	get_index_of_rightmost_set_bit	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/bit/_manipulation/is/_even.py	F	is_even	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/bit/_manipulation/is/_power/_of/_two.py	F	is_power_of_two	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/bit/_manipulation/largest/_pow/_of/_two/_le/_num.py	F	largest_pow_of_two_le_num	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/bit/_manipulation/missing/_number.py	F	find_missing_number	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/bit/_manipulation/numbers/_different/_signs.py	F	different_signs	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/bit/_manipulation/power/_of/_4.py	F	power_of_4	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/bit/_manipulation/reverse/_bits.py	F	reverse_bit	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/bit/_manipulation/reverse/_bits.py	F	get_reverse_bit_string	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/bit/_manipulation/single/_bit/_manipulation/_operations.py	F	set_bit	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/bit/_manipulation/single/_bit/_manipulation/_operations.py	F	clear_bit	A	1

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/bit/_manipulation/single/_bit/_manipulation/_operations.py	F	flip_bit	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/bit/_manipulation/single/_bit/_manipulation/_operations.py	F	is_bit_set	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/bit/_manipulation/single/_bit/_manipulation/_operations.py	F	get_bit	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/bit/_manipulation/swap/_all/_odd/_and/_even/_bits.py	F	show_bits	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/bit/_manipulation/swap/_all/_odd/_and/_even/_bits.py	F	swap_odd_even_bits	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/blockchain/diophantine/_equation.py	F	extended_gcd	B	7
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/blockchain/diophantine/_equation.py	F	diophantine	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/blockchain/diophantine/_equation.py	F	diophantine_all_soln	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/boolean/_algebra/_and/_gate.py	F	and_gate	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/boolean/_algebra/_and/_gate.py	F	n_input_and_gate	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/boolean/_algebra/_imply/_gate.py	F	recursive_imply_list	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/boolean/_algebra/_imply/_gate.py	F	imply_gate	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/boolean/_algebra/_karnaugh/_map/_simplification.py	F	simplify_kmap	B	6
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/boolean/_algebra/_karnaugh/_map/_simplification.py	F	main	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/boolean/_algebra/_multiplexer.py	F	mux	A	4

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/boolean/_algebra/nand/_gate.py	F	nand_gate	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/boolean/_algebra/nimply/_gate.py	F	nimply_gate	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/boolean/_algebra/nor/_gate.py	F	truth_table	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/boolean/_algebra/nor/_gate.py	F	nor_gate	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/boolean/_algebra/not/_gate.py	F	not_gate	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/boolean/_algebra/or/_gate.py	F	or_gate	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/boolean/_algebra/quine_mc_cluskey.py	F	selection	C	17
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/boolean/_algebra/quine_mc_cluskey.py	F	check	B	8
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/boolean/_algebra/quine_mc_cluskey.py	F	prime_implicant_chart	B	6
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/boolean/_algebra/quine_mc_cluskey.py	F	compare_string	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/boolean/_algebra/quine_mc_cluskey.py	F	decimal_to_binary	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/boolean/_algebra/quine_mc_cluskey.py	F	is_for_table	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/boolean/_algebra/quine_mc_cluskey.py	F	main	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/boolean/_algebra/xnor/_gate.py	F	xnor_gate	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/boolean/_algebra/xor/_gate.py	F	xor_gate	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/cellular/_automata/conways/_game_of/_life.py	F	new_generation	C	19
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/cellular/_automata/conways/_game_of/_life.py	F	generate_images	A	4

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/cellular/_automata/game/_of/_life.py	F	__judge_point	B	10
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/cellular/_automata/game/_of/_life.py	F	create_canvas	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/cellular/_automata/game/_of/_life.py	F	seed	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/cellular/_automata/game/_of/_life.py	F	run	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/cellular/_automata/langtons/_ant.py	M	LangtonsAnt.move_ant	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/cellular/_automata/langtons/_ant.py	C	LangtonsAnt	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/cellular/_automata/langtons/_ant.py	M	LangtonsAnt.__init__	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/cellular/_automata/langtons/_ant.py	M	LangtonsAnt.display	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/cellular/_automata/nagel/_schrekenberg.py	F	construct_highway	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/cellular/_automata/nagel/_schrekenberg.py	F	update	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/cellular/_automata/nagel/_schrekenberg.py	F	simulate	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/cellular/_automata/nagel/_schrekenberg.py	F	get_distance	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/cellular/_automata/one/_dimensional.py	F	new_generation	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/cellular/_automata/one/_dimensional.py	F	generate_image	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/cellular/_automata/one/_dimensional.py	F	format_ruleset	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/cellular/_automata/wa/_tor.py	F	visualise	C	11
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/cellular/_automata/wa/_tor.py	M	WaTor.move_and_reproduce	B	9

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/cellular/_automata/wa_tor.py	M	WaTor.balance_predators_and_prey	B	8
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/cellular/_automata/wa_tor.py	M	WaTor.run	B	7
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/cellular/_automata/wa_tor.py	M	WaTor.get_surrounding_preys	B	6
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/cellular/_automata/wa_tor.py	C	WaTor	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/cellular/_automata/wa_tor.py	M	WaTor.perform_predator_actions	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/cellular/_automata/wa_tor.py	M	WaTor.__init__	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/cellular/_automata/wa_tor.py	M	WaTor.get_entities	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/cellular/_automata/wa_tor.py	C	Entity	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/cellular/_automata/wa_tor.py	M	Entity.__init__	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/cellular/_automata/wa_tor.py	M	WaTor.add_entity	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/cellular/_automata/wa_tor.py	M	Entity.reset_reproduction_time	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/cellular/_automata/wa_tor.py	M	Entity.__repr__	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/cellular/_automata/wa_tor.py	M	WaTor.set_planet	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/cellular/_automata/wa_tor.py	M	WaTor.perform_preys_actions	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/ciphers/a1z26.py	F	encode	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/ciphers/a1z26.py	F	decode	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/ciphers/a1z26.py	F	main	A	1

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/ciphers/affine\_cipher.py	F	check_keys	B	8
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/ciphers/affine\_cipher.py	F	get_random_key	A	4
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/ciphers/affine\_cipher.py	F	encrypt_message	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/ciphers/affine\_cipher.py	F	decrypt_message	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/ciphers/affine\_cipher.py	F	main	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/ciphers/atbash.py	F	atbash_slow	A	4
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/ciphers/atbash.py	F	atbash	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/ciphers/atbash.py	F	benchmark	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/ciphers/autokey.py	F	encrypt	B	10
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/ciphers/autokey.py	F	decrypt	B	8
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/ciphers/baconian\_cipher.py	F	encode	A	4
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/ciphers/baconian\_cipher.py	F	decode	A	4
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/ciphers/base16.py	F	base16_decode	A	4
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/ciphers/base16.py	F	base16_encode	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/ciphers/base32.py	F	base32_encode	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/ciphers/base32.py	F	base32_decode	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/ciphers/base64\_cipher.py	F	base64_decode	C	13

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/ciphers/base64\_cipher.py	F	base64_encode	A	5
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/ciphers/base85.py	F	ascii85_decode	B	7
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/ciphers/base85.py	F	ascii85_encode	A	5
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/ciphers/base85.py	F	_base10_to_85	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/ciphers/base85.py	F	_base85_to_10	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/ciphers/beaufort\_cipher.py	F	generate_key	A	4
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/ciphers/beaufort\_cipher.py	F	cipher_text	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/ciphers/beaufort\_cipher.py	F	original_text	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/ciphers/beaufort\_cipher.py	F	main	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/ciphers/bifid.py	C	BifidCipher	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/ciphers/bifid.py	M	BifidCipher.encode	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/ciphers/bifid.py	M	BifidCipher.decode	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/ciphers/bifid.py	M	BifidCipher.__init__	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/ciphers/bifid.py	M	BifidCipher.letter_to_numbers	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/ciphers/bifid.py	M	BifidCipher.numbers_to_letter	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/ciphers/brute\_force\_caesar\_cipher.py	F	decrypt	A	5
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/ciphers/brute\_force\_caesar\_cipher.py	F	main	A	1

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/ciphers/caesar\_cipher.py	F	encrypt	A	4
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/ciphers/caesar\_cipher.py	F	brute_force	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/ciphers/caesar\_cipher.py	F	decrypt	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/ciphers/cryptomath\_module.py	F	find_mod_inverse	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/ciphers/decrypt\_caesar\_with\_chi\_squared.py	F	decrypt_caesar_with_chi_squared	D	14
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/ciphers/deterministic\_miller\_rabin.py	F	test_miller_rabin	D	21
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/ciphers/deterministic\_miller\_rabin.py	F	miller_rabin	C	17
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/ciphers/diffie\_hellman.py	F	find_primitive	A	5
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/ciphers/diffie\_hellman.py	C	DiffieHellman	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/ciphers/diffie\_hellman.py	M	DiffieHellman.__init__	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/ciphers/diffie\_hellman.py	M	DiffieHellman.is_valid_public_key	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/ciphers/diffie\_hellman.py	M	DiffieHellman.generate_shared_key	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/ciphers/diffie\_hellman.py	M	DiffieHellman.is_valid_public_key_static	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/ciphers/diffie\_hellman.py	M	DiffieHellman.generate_shared_key_static	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/ciphers/diffie\_hellman.py	M	DiffieHellman.get_private_key	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/ciphers/diffie\_hellman.py	M	DiffieHellman.generate_public_key	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/ciphers/elgamal\_key\_generator.py	F	primitive_root	A	4

（续下页）



文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/ciphers/elgamal\_key\_generator.py	F	make_key_files	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/ciphers/elgamal\_key\_generator.py	F	generate_key	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/ciphers/elgamal\_key\_generator.py	F	main	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/ciphers/enigma\_machine2.py	F	_plugboard	B	8
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/ciphers/enigma\_machine2.py	F	enigma	B	8
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/ciphers/enigma\_machine2.py	F	_validator	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/ciphers/fractionated\_morse\_cipher.py	F	encrypt_fractionated_morse	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/ciphers/fractionated\_morse\_cipher.py	F	decrypt_fractionated_morse	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/ciphers/fractionated\_morse\_cipher.py	F	encode_to_morse	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/ciphers/gronsfeld\_cipher.py	F	gronsfeld	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/ciphers/hill\_cipher.py	F	main	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/ciphers/hill\_cipher.py	M	HillCipher.process_text	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/ciphers/hill\_cipher.py	M	HillCipher.encrypt	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/ciphers/hill\_cipher.py	M	HillCipher.make_decrypt_key	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/ciphers/hill\_cipher.py	M	HillCipher.decrypt	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/ciphers/hill\_cipher.py	C	HillCipher	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/ciphers/hill\_cipher.py	M	HillCipher.check_determinant	A	3

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/ciphers/hill\_cipher.py	M	HillCipher.__init__	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/ciphers/hill\_cipher.py	M	HillCipher.replace_letters	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/ciphers/hill\_cipher.py	M	HillCipher.replace_digits	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/ciphers/mixed\_keyword\_cypher.py	F	mixed_keyword	C	12
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/ciphers/mono\_alphabetic\_ciphers.py	F	translate_message	B	6
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/ciphers/mono\_alphabetic\_ciphers.py	F	main	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/ciphers/mono\_alphabetic\_ciphers.py	F	encrypt_message	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/ciphers/mono\_alphabetic\_ciphers.py	F	decrypt_message	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/ciphers/morse\_code.py	F	encrypt	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/ciphers/morse\_code.py	F	decrypt	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/ciphers/morse\_code.py	F	main	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/ciphers/onepad\_cipher.py	C	Onepad	A	4
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/ciphers/onepad\_cipher.py	M	Onepad.encrypt	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/ciphers/onepad\_cipher.py	M	Onepad.decrypt	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/ciphers/permutation\_cipher.py	F	encrypt	A	5
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/ciphers/permutation\_cipher.py	F	generate_valid_block_size	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/ciphers/permutation\_cipher.py	F	decrypt	A	3

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/ciphers/permutation_cipher.py	F	generate_permutation_key	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/ciphers/permutation_cipher.py	F	main	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/ciphers/playfair_cipher.py	F	prepare_input	B	7
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/ciphers/playfair_cipher.py	F	generate_table	B	6
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/ciphers/playfair_cipher.py	F	encode	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/ciphers/playfair_cipher.py	F	decode	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/ciphers/playfair_cipher.py	F	chunker	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/ciphers/polybius.py	M	PolybiusCipher.encode	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/ciphers/polybius.py	M	PolybiusCipher.decode	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/ciphers/polybius.py	C	PolybiusCipher	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/ciphers/polybius.py	M	PolybiusCipher.__init__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/ciphers/polybius.py	M	PolybiusCipher.letter_to_numbers	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/ciphers/polybius.py	M	PolybiusCipher.numbers_to_letter	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/ciphers/porta_cipher.py	F	get_opponent	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/ciphers/porta_cipher.py	F	generate_table	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/ciphers/porta_cipher.py	F	encrypt	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/ciphers/porta_cipher.py	F	get_position	A	2

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/ciphers/porta\_cipher.py	F	decrypt	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/ciphers/rabin\_miller.py	F	rabin_miller	B	6
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/ciphers/rabin\_miller.py	F	is_prime_low_num	A	5
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/ciphers/rabin\_miller.py	F	generate_large_prime	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/ciphers/rail\_fence\_cipher.py	F	encrypt	B	7
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/ciphers/rail\_fence\_cipher.py	F	decrypt	B	7
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/ciphers/rail\_fence\_cipher.py	F	bruteforce	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/ciphers/rot13.py	F	dencrypt	A	4
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/ciphers/rot13.py	F	main	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/ciphers/rsa\_cipher.py	F	main	B	6
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/ciphers/rsa\_cipher.py	F	get_text_from_blocks	A	4
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/ciphers/rsa\_cipher.py	F	get_blocks_from_text	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/ciphers/rsa\_cipher.py	F	encrypt_and_write_to_file	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/ciphers/rsa\_cipher.py	F	read_from_file_and_decrypt	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/ciphers/rsa\_cipher.py	F	encrypt_message	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/ciphers/rsa\_cipher.py	F	decrypt_message	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/ciphers/rsa\_cipher.py	F	read_key_file	A	1

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/ciphers/rsa/_factorization.py	F	rsafactor	B	6
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/ciphers/rsa/_key/_generator.py	F	generate_key	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/ciphers/rsa/_key/_generator.py	F	make_key_files	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/ciphers/rsa/_key/_generator.py	F	main	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/ciphers/running/_key/_cipher.py	F	running_key_encrypt	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/ciphers/running/_key/_cipher.py	F	running_key_decrypt	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/ciphers/running/_key/_cipher.py	F	test_running_key_encrypt	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/ciphers/shuffled/_shift/_cipher.py	M	ShuffledShiftCipher.__make_key_list	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/ciphers/shuffled/_shift/_cipher.py	C	ShuffledShiftCipher	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/ciphers/shuffled/_shift/_cipher.py	M	ShuffledShiftCipher.__make_shift_key	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/ciphers/shuffled/_shift/_cipher.py	M	ShuffledShiftCipher.__init__	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/ciphers/shuffled/_shift/_cipher.py	M	ShuffledShiftCipher.__neg_pos	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/ciphers/shuffled/_shift/_cipher.py	M	ShuffledShiftCipher.__passcode_creator	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/ciphers/shuffled/_shift/_cipher.py	M	ShuffledShiftCipher.decrypt	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/ciphers/shuffled/_shift/_cipher.py	M	ShuffledShiftCipher.encrypt	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/ciphers/shuffled/_shift/_cipher.py	F	test_end_to_end	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/ciphers/shuffled/_shift/_cipher.py	M	ShuffledShiftCipher.__str__	A	1

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/ciphers/simple\_keyword\_cypher.py	F	remove_duplicates	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/ciphers/simple\_keyword\_cypher.py	F	create_cipher_map	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/ciphers/simple\_keyword\_cypher.py	F	decipher	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/ciphers/simple\_keyword\_cypher.py	F	encipher	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/ciphers/simple\_keyword\_cypher.py	F	main	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/ciphers/simple\_substitution\_cipher.py	F	translate_message	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/ciphers/simple\_substitution\_cipher.py	F	main	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/ciphers/simple\_substitution\_cipher.py	F	check_valid_key	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/ciphers/simple\_substitution\_cipher.py	F	encrypt_message	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/ciphers/simple\_substitution\_cipher.py	F	decrypt_message	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/ciphers/simple\_substitution\_cipher.py	F	get_random_key	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/ciphers/transposition\_cipher.py	F	decrypt_message	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/ciphers/transposition\_cipher.py	F	main	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/ciphers/transposition\_cipher.py	F	encrypt_message	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/ciphers/transposition\_cipher\_encrypt\_decrypt\_file.py	F	main	B	6
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/ciphers/trifid\_cipher.py	F	__prepare	A	5

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/ciphers/trifid\_cipher.py	F	__decrypt_part	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/ciphers/trifid\_cipher.py	F	decrypt_message	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/ciphers/trifid\_cipher.py	F	__encrypt_part	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/ciphers/trifid\_cipher.py	F	encrypt_message	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/ciphers/vernam\_cipher.py	F	vernam_encrypt	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/ciphers/vernam\_cipher.py	F	vernam_decrypt	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/ciphers/vigener\_cipher.py	F	translate_message	B	8
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/ciphers/vigener\_cipher.py	F	main	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/ciphers/vigener\_cipher.py	F	encrypt_message	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/ciphers/vigener\_cipher.py	F	decrypt_message	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/ciphers/xor\_cipher.py	C	XORCipher	B	6
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/ciphers/xor\_cipher.py	M	XORCipher.encrypt	B	6
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/ciphers/xor\_cipher.py	M	XORCipher.decrypt	B	6
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/ciphers/xor\_cipher.py	M	XORCipher.encrypt_string	B	6
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/ciphers/xor\_cipher.py	M	XORCipher.decrypt_string	B	6
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/ciphers/xor\_cipher.py	M	XORCipher.encrypt_file	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/ciphers/xor\_cipher.py	M	XORCipher.decrypt_file	A	5

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/ciphers/xor/_cipher.py	M	XORCipher.__init__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/computer/_vision/flip/_augmentation.py	F	update_image_and_anno	B	6
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/computer/_vision/flip/_augmentation.py	F	main	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/computer/_vision/flip/_augmentation.py	F	get_dataset	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/computer/_vision/flip/_augmentation.py	F	random_chars	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/computer/_vision/haralick/_descriptors.py	F	transform	B	6
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/computer/_vision/haralick/_descriptors.py	F	matrix_concurrency	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/computer/_vision/haralick/_descriptors.py	F	normalize_array	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/computer/_vision/haralick/_descriptors.py	F	opening_filter	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/computer/_vision/haralick/_descriptors.py	F	closing_filter	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/computer/_vision/haralick/_descriptors.py	F	get_descriptors	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/computer/_vision/haralick/_descriptors.py	F	get_distances	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/computer/_vision/haralick/_descriptors.py	F	root_mean_square_error	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/computer/_vision/haralick/_descriptors.py	F	normalize_image	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/computer/_vision/haralick/_descriptors.py	F	grayscale	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/computer/_vision/haralick/_descriptors.py	F	binarize	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/computer/_vision/haralick/_descriptors.py	F	binary_mask	A	1

（续下页）



文件	类型	符号（函数/方法）	等级	分数
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/computer\_vision/haralick\_descriptors.py	F	haralick_descriptors	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/computer\_vision/haralick\_descriptors.py	F	euclidean	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/computer\_vision/harris\_corner.py	M	HarrisCorner.detect	A	4
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/computer\_vision/harris\_corner.py	C	HarrisCorner	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/computer\_vision/harris\_corner.py	M	HarrisCorner.__init__	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/computer\_vision/harris\_corner.py	M	HarrisCorner.__str__	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/computer\_vision/horn\_schunck.py	F	horn_schunck	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/computer\_vision/horn\_schunck.py	F	warp	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/computer\_vision/intensity\_based\_segmentation.py	F	segment_image	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/computer\_vision/mean\_threshold.py	F	mean_threshold	B	6
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/computer\_vision/mosaic\_augmentation.py	F	update_image_and_anno	C	13
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/computer\_vision/mosaic\_augmentation.py	F	main	A	4
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/computer\_vision/mosaic\_augmentation.py	F	get_dataset	A	4
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/computer\_vision/mosaic\_augmentation.py	F	random_chars	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/computer\_vision/pooling\_functions.py	F	maxpooling	B	6
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/computer\_vision/pooling\_functions.py	F	avgpooling	B	6

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/conversions/astromonomical\_length\_scale\_conversion.py	F	length_conversion	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/conversions/binary\_to\_decimal.py	F	bin_to_decimal	B	7
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/conversions/binary\_to\_hexadecimal.py	F	bin_to_hexadecimal	B	7
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/conversions/binary\_to\_octal.py	F	bin_to_octal	B	9
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/conversions/convert\_number\_to\_words.py	F	convert_number	B	8
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/conversions/convert\_number\_to\_words.py	F	convert_small_number	B	7
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/conversions/convert\_number\_to\_words.py	C	NumberingSystem	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/conversions/convert\_number\_to\_words.py	M	NumberingSystem.max_value	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/conversions/convert\_number\_to\_words.py	C	NumberWords	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/conversions/decimal\_to\_any.py	F	decimal_to_any	C	12
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/conversions/decimal\_to\_binary.py	F	decimal_to_binary_iterative	B	9
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/conversions/decimal\_to\_binary.py	F	decimal_to_binary_recursive	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/conversions/decimal\_to\_binary.py	F	decimal_to_binary_recursive_helper		2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/conversions/decimal\_to\_hexadecimal.py	F	decimal_to_hexadecimal	B	6
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/conversions/decimal\_to\_octal.py	F	decimal_to_octal	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/conversions/decimal\_to\_octal.py	F	main	A	1

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/conversions/energy\_conversions.py	F	energy_conversion	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/conversions/excel\_title\_to\_column.py	F	excel_title_to_column	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/conversions/hexadecimal\_to\_decimal.py	F	hex_to_decimal	B	7
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/conversions/hex\_to\_bin.py	F	hex_to_bin	B	6
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/conversions/ipv4\_conversion.py	F	ipv4_to_decimal	A	5
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/conversions/ipv4\_conversion.py	F	decimal_to_ipv4	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/conversions/ipv4\_conversion.py	F	alt_ipv4_to_decimal	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/conversions/length\_conversion.py	F	length_conversion	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/conversions/length\_conversion.py	C	FromTo	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/conversions/molecular\_chemistry.py	F	molarity_to_normality	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/conversions/molecular\_chemistry.py	F	moles_to_pressure	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/conversions/molecular\_chemistry.py	F	moles_to_volume	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/conversions/molecular\_chemistry.py	F	pressure_and_volume_to_temperature	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/conversions/octal\_to\_binary.py	F	octal_to_binary	A	5
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/conversions/octal\_to\_decimal.py	F	oct_to_decimal	B	8
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/conversions/octal\_to\_hexadecimal.py	F	octal_to_hex	B	8
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/conversions/prefix\_conversions.py	F	convert_si_prefix	A	3

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/conversions/prefix/_conversions.py	F	convert_binary_prefix	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/conversions/prefix/_conversions.py	C	SIUnit	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/conversions/prefix/_conversions.py	C	BinaryUnit	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/conversions/prefix/_conversions/_string.py	F	add_si_prefix	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/conversions/prefix/_conversions/_string.py	C	SIUnit	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/conversions/prefix/_conversions/_string.py	F	add_binary_prefix	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/conversions/prefix/_conversions/_string.py	M	SIUnit.get_positive	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/conversions/prefix/_conversions/_string.py	M	SIUnit.get_negative	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/conversions/prefix/_conversions/_string.py	C	BinaryUnit	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/conversions/pressure/_conversions.py	F	pressure_conversion	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/conversions/pressure/_conversions.py	C	FromTo	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/conversions/rectangular/_to/_polar.py	F	rectangular_to_polar	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/conversions/rgb/_cmyk/_conversion.py	F	rgb_to_cmyk	B	8
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/conversions/rgb/_hsv/_conversion.py	F	hsv_to_rgb	C	17
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/conversions/rgb/_hsv/_conversion.py	F	rgb_to_hsv	C	11
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/conversions/rgb/_hsv/_conversion.py	F	approximately_equal_hsv	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/conversions/roman/_numerals.py	F	roman_to_int	A	4

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/conversions/roman\_numerals.py	F	int_to_roman	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/conversions/speed\_conversions.py	F	convert_speed	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/conversions/temperature\_conversions.py	F	celsius_to_fahrenheit	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/conversions/temperature\_conversions.py	F	celsius_to_kelvin	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/conversions/temperature\_conversions.py	F	celsius_to_rankine	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/conversions/temperature\_conversions.py	F	fahrenheit_to_celsius	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/conversions/temperature\_conversions.py	F	fahrenheit_to_kelvin	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/conversions/temperature\_conversions.py	F	fahrenheit_to_rankine	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/conversions/temperature\_conversions.py	F	kelvin_to_celsius	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/conversions/temperature\_conversions.py	F	kelvin_to_fahrenheit	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/conversions/temperature\_conversions.py	F	kelvin_to_rankine	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/conversions/temperature\_conversions.py	F	rankine_to_celsius	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/conversions/temperature\_conversions.py	F	rankine_to_fahrenheit	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/conversions/temperature\_conversions.py	F	rankine_to_kelvin	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/conversions/temperature\_conversions.py	F	reaumur_to_kelvin	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/conversions/temperature\_conversions.py	F	reaumur_to_fahrenheit	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/conversions/temperature\_conversions.py	F	reaumur_to_celsius	A	1

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/conversions/temperature/_conversions.py	F	reaumur_to_rankine	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/conversions/time/_conversions.py	F	convert_time	B	6
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/conversions/volume/_conversions.py	F	volume_conversion	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/conversions/volume/_conversions.py	C	FromTo	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/conversions/weight/_conversion.py	F	weight_conversion	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_compression/burrows/_wheeler.py	F	reverse_bwt	B	8
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_compression/burrows/_wheeler.py	F	bwt_transform	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_compression/burrows/_wheeler.py	F	all_rotations	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_compression/burrows/_wheeler.py	C	BWTTransformDict	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_compression/coordinate/_compression.py	C	CoordinateCompressor	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_compression/coordinate/_compression.py	M	CoordinateCompressor.compress_coordinates	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_compression/coordinate/_compression.py	M	CoordinateCompressor.decompress	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_compression/coordinate/_compression.py	M	CoordinateCompressor.__init__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_compression/coordinate/_compression.py	M	CoordinateCompressor.compress	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_compression/huffman.py	F	parse_file	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_compression/huffman.py	F	huffman	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_compression/huffman.py	F	build_tree	A	2

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_compression/huffman.py	F	traverse_tree	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_compression/huffman.py	C	Letter	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_compression/huffman.py	C	TreeNode	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_compression/huffman.py	M	Letter.__init__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_compression/huffman.py	M	Letter.__repr__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_compression/huffman.py	M	TreeNode.__init__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_compression/lempel_ziv.py	F	compress_data	B	6
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_compression/lempel_ziv.py	F	write_file_binary	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_compression/lempel_ziv.py	F	read_file_binary	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_compression/lempel_ziv.py	F	add_key_to_lexicon	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_compression/lempel_ziv.py	F	add_file_length	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_compression/lempel_ziv.py	F	compress	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_compression/lempel_ziv_decompress.py	F	decompress_data	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_compression/lempel_ziv_decompress.py	F	write_file_binary	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_compression/lempel_ziv_decompress.py	F	read_file_binary	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_compression/lempel_ziv_decompress.py	F	remove_prefix	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_compression/lempel_ziv_decompress.py	F	compress	A	1

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_compression/lz77.py	M	LZ77Compressor._find_encoding	B	6
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_compression/lz77.py	C	LZ77Compressor	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_compression/lz77.py	M	LZ77Compressor.compress	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_compression/lz77.py	M	LZ77Compressor.decompress	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_compression/lz77.py	M	LZ77Compressor._match_length_from_index	B	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_compression/lz77.py	C	Token	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_compression/lz77.py	M	Token.__repr__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_compression/lz77.py	M	LZ77Compressor.__init__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_compression/peak/_signal/_to/_noise/_ratio.py	F	peak_signal_to_noise_ratio	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_compression/peak/_signal/_to/_noise/_ratio.py	F	main	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_compression/run/_length/_encoding.py	F	run_length_encode	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_compression/run/_length/_encoding.py	F	run_length_decode	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/arrays/equilibrium/_index/_in/_array.py	F	equilibrium_index	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/arrays/find/_triplets/_with/_0/_sum.py	F	find_triplets_with_0_sum_hashing	B	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/arrays/find/_triplets/_with/_0/_sum.py	F	find_triplets_with_0_sum	A	4

（续下页）



文件	类型	符号（函数/方法）	等级	分数
D: /code\_assistant/Git\_repo/TheAlgorithms\\\_Python/data\\_structures/arrays/index\\_2d\\_array\\_in\\_1d.py	F	index_2d_array_in_1d	A	5
D: /code\_assistant/Git\_repo/TheAlgorithms\\\_Python/data\\_structures/arrays/index\\_2d\\_array\\_in\\_1d.py	C	Index2DArrayIterator	A	3
D: /code\_assistant/Git\_repo/TheAlgorithms\\\_Python/data\\_structures/arrays/index\\_2d\\_array\\_in\\_1d.py	M	Index2DArrayIterator.__iter__	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\\\_Python/data\\_structures/arrays/kth\_largest\\_element.py	F	kth_largest_element	B	9
D:/code\_assistant/Git\_repo/TheAlgorithms\\\_Python/data\\_structures/arrays/kth\_largest\\_element.py	F	partition	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\\\_Python/data\\_structures/arrays/median\\_two\\_array.py	F	find_median_sorted_arrays	A	4
D:/code\_assistant/Git\_repo/TheAlgorithms\\\_Python/data\\_structures/arrays/monotonic\\_array.py	F	is_monotonic	A	4
D: /code\_assistant/Git\_repo/TheAlgorithms\\\_Python/data\\_structures/arrays/pairs\\_with\\_given\\_sum.py	F	pairs_with_sum	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\\\_Python/data\\_structures/arrays/permutations.py	F	permute_recursive	A	4
D:/code\_assistant/Git\_repo/TheAlgorithms\\\_Python/data\\_structures/arrays/permutations.py	F	permute_backtrack	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\\\_Python/data\\_structures/arrays/prefix\\_sum.py	M	PrefixSum.get_sum	B	6
D:/code\_assistant/Git\_repo/TheAlgorithms\\\_Python/data\\_structures/arrays/prefix\\_sum.py	C	PrefixSum	A	5
D:/code\_assistant/Git\_repo/TheAlgorithms\\\_Python/data\\_structures/arrays/prefix\\_sum.py	M	PrefixSum.__init__	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\\\_Python/data\\_structures/arrays/prefix\\_sum.py	M	PrefixSum.contains_sum	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\\\_Python/data\\_structures/arrays/product\\_sum.py	F	product_sum	A	3

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/arrays/product/_sum.py	F	product_sum_array	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/arrays/rotate/_array.py	F	rotate_array	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/arrays/sparse/_table.py	F	build_sparse_table	B	7
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/arrays/sparse/_table.py	F	query	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/arrays/sudoku/_solver.py	F	eliminate	C	12
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/arrays/sudoku/_solver.py	F	random_puzzle	B	9
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/arrays/sudoku/_solver.py	F	test	B	7
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/arrays/sudoku/_solver.py	F	search	B	7
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/arrays/sudoku/_solver.py	F	display	B	6
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/arrays/sudoku/_solver.py	F	grid_values	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/arrays/sudoku/_solver.py	F	parse_grid	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/arrays/sudoku/_solver.py	F	cross	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/arrays/sudoku/_solver.py	F	assign	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/arrays/sudoku/_solver.py	F	some	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/arrays/sudoku/_solver.py	F	solve_all	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/arrays/sudoku/_solver.py	F	solved	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/arrays/sudoku/_solver.py	F	solve	A	1

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/arrays/sudoku\_solver.py	F	from_file	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/arrays/sudoku\_solver.py	F	shuffled	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/binary\_tree/avl\_tree.py	F	del_node	C	15
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/binary\_tree/avl\_tree.py	F	insert_node	B	9
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/binary\_tree/avl\_tree.py	M	AVLtree.__str__	B	7
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/binary\_tree/avl\_tree.py	F	get_right_most	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/binary\_tree/avl\_tree.py	F	get_left_most	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/binary\_tree/avl\_tree.py	C	AVLtree	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/binary\_tree/avl\_tree.py	F	get_height	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/binary\_tree/avl\_tree.py	F	my_max	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/binary\_tree/avl\_tree.py	F	right_rotation	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/binary\_tree/avl\_tree.py	F	left_rotation	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/binary\_tree/avl\_tree.py	F	lr_rotation	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/binary\_tree/avl\_tree.py	F	rl_rotation	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/binary\_tree/avl\_tree.py	C	MyQueue	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/binary\_tree/avl\_tree.py	C	MyNode	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/binary\_tree/avl\_tree.py	M	AVLtree.del_node	A	2

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/avl/_tree.py	F	_test	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/avl/_tree.py	M	MyQueue.__init__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/avl/_tree.py	M	MyQueue.is_empty	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/avl/_tree.py	M	MyQueue.push	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/avl/_tree.py	M	MyQueue.pop	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/avl/_tree.py	M	MyQueue.count	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/avl/_tree.py	M	MyQueue.print_queue	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/avl/_tree.py	M	MyNode.__init__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/avl/_tree.py	M	MyNode.get_data	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/avl/_tree.py	M	MyNode.get_left	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/avl/_tree.py	M	MyNode.get_right	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/avl/_tree.py	M	MyNode.get_height	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/avl/_tree.py	M	MyNode.set_data	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/avl/_tree.py	M	MyNode.set_left	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/avl/_tree.py	M	MyNode.set_right	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/avl/_tree.py	M	MyNode.set_height	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/avl/_tree.py	M	AVLtree.__init__	A	1

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/avl/_tree.py	M	AVLtree.get_height	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/avl/_tree.py	M	AVLtree.insert	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/basic/_binary/_tree.py	M	Node.is_full	B	7
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/basic/_binary/_tree.py	C	Node	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/basic/_binary/_tree.py	M	Node.__iter__	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/basic/_binary/_tree.py	M	Node.__len__	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/basic/_binary/_tree.py	C	BinaryTree	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/basic/_binary/_tree.py	M	BinaryTree._depth	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/basic/_binary/_tree.py	M	BinaryTree.__iter__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/basic/_binary/_tree.py	M	BinaryTree.__len__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/basic/_binary/_tree.py	M	BinaryTree.small_tree	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/basic/_binary/_tree.py	M	BinaryTree.medium_tree	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/basic/_binary/_tree.py	M	BinaryTree.depth	A	1

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/basic/_binary/_tree.py	M	BinaryTree.is_full	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/binary/_search/_tree.py	M	BinarySearchTree.__insert	B	7
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/binary/_search/_tree.py	M	BinarySearchTree.remove	B	6
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/binary/_search/_tree.py	M	BinarySearchTree.search	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/binary/_search/_tree.py	M	BinarySearchTree.get_max	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/binary/_search/_tree.py	M	BinarySearchTree.get_min	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/binary/_search/_tree.py	C	Node	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/binary/_search/_tree.py	C	BinarySearchTree	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/binary/_search/_tree.py	M	BinarySearchTree.__reassign_nodes	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/binary/_search/_tree.py	M	Node.__iter__	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/binary/_search/_tree.py	M	Node.__repr__	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/binary/_search/_tree.py	F	inorder	A	2

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/binary/_search/_tree.py	F	postorder	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/binary/_search/_tree.py	M	Node.is_right	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/binary/_search/_tree.py	M	BinarySearchTree.__iter__	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/binary/_search/_tree.py	M	BinarySearchTree.insert	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/binary/_search/_tree.py	M	BinarySearchTree.preorder_traverse	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/binary/_search/_tree.py	M	BinarySearchTree.traversal_tree	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/binary/_search/_tree.py	M	BinarySearchTree.inorder	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/binary/_search/_tree.py	M	BinarySearchTree.__bool__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/binary/_search/_tree.py	M	BinarySearchTree.__str__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/binary/_search/_tree.py	M	BinarySearchTree.empty	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/binary/_search/_tree.py	M	BinarySearchTree.find_kth_smallest	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/binary/_search/_tree/_recursive.py	M	BinarySearchTreeTest.test_remove	A	33

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/binary/_search/_tree/_recursive.py	M	BinarySearchTreeTest.test_put	C	17
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/binary/_search/_tree/_recursive.py	M	BinarySearchTreeTest.test_remove_2	C	16
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/binary/_search/_tree/_recursive.py	M	BinarySearchTree.remove	B	8
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/binary/_search/_tree/_recursive.py	C	BinarySearchTreeTest	B	8
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/binary/_search/_tree/_recursive.py	F	binary_search_tree_example	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/binary/_search/_tree/_recursive.py	M	BinarySearchTree._put	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/binary/_search/_tree/_recursive.py	M	BinarySearchTree._search	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/binary/_search/_tree/_recursive.py	M	BinarySearchTree._reassign_nodes	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/binary/_search/_tree/_recursive.py	C	BinarySearchTree	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/binary/_search/_tree/_recursive.py	M	BinarySearchTree.get_max_label	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/binary/_search/_tree/_recursive.py	M	BinarySearchTree.get_min_label	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/binary/_search/_tree/_recursive.py	M	BinarySearchTreeTest.test_search	A	3

（续下页）



文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/binary/_search/_tree/_recursive.py	M	BinarySearchTreeTest.test_is_empty		3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/binary/_search/_tree/_recursive.py	M	BinarySearchTreeTest.test_exists		3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/binary/_search/_tree/_recursive.py	M	BinarySearchTreeTest.test_inorder_traversal		3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/binary/_search/_tree/_recursive.py	M	BinarySearchTreeTest.test_preorder_traversal		3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/binary/_search/_tree/_recursive.py	C	Node	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/binary/_search/_tree/_recursive.py	M	BinarySearchTree._get_lowest_node		2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/binary/_search/_tree/_recursive.py	M	BinarySearchTree.exists	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/binary/_search/_tree/_recursive.py	M	BinarySearchTree._inorder_traversal		2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/binary/_search/_tree/_recursive.py	M	BinarySearchTree._preorder_traversal		2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/binary/_search/_tree/_recursive.py	M	BinarySearchTreeTest.test_empty		2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/binary/_search/_tree/_recursive.py	M	BinarySearchTreeTest.test_get_max_label		2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/binary/_search/_tree/_recursive.py	M	BinarySearchTreeTest.test_get_min_label		2

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/binary/_search/_tree/_recursive.py	M	Node.__init__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/binary/_search/_tree/_recursive.py	M	BinarySearchTree.__init__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/binary/_search/_tree/_recursive.py	M	BinarySearchTree.empty	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/binary/_search/_tree/_recursive.py	M	BinarySearchTree.is_empty	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/binary/_search/_tree/_recursive.py	M	BinarySearchTree.put	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/binary/_search/_tree/_recursive.py	M	BinarySearchTree.search	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/binary/_search/_tree/_recursive.py	M	BinarySearchTree.inorder_traversal	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/binary/_search/_tree/_recursive.py	M	BinarySearchTree.preorder_traversal	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/binary/_search/_tree/_recursive.py	M	BinarySearchTreeTest._get_binary_search_tree	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/binary/_tree/_mirror.py	F	binary_tree_mirror_dict	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/binary/_tree/_mirror.py	F	binary_tree_mirror	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/binary/_tree/_node/_sum.py	C	Node	A	2

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/binary/_tree/_node/_sum.py	C	BinaryTreeNodeSum	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/binary/_tree/_node/_sum.py	M	BinaryTreeNodeSum.depth_first_search		2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/binary/_tree/_node/_sum.py	M	Node.__init__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/binary/_tree/_node/_sum.py	M	BinaryTreeNodeSum.__init__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/binary/_tree/_node/_sum.py	M	BinaryTreeNodeSum.__iter__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/binary/_tree/_path/_sum.py	M	BinaryTreePathSum.depth_first_search		5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/binary/_tree/_path/_sum.py	C	BinaryTreePathSum	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/binary/_tree/_path/_sum.py	M	BinaryTreePathSum.path_sum	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/binary/_tree/_path/_sum.py	C	Node	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/binary/_tree/_path/_sum.py	M	Node.__init__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/binary/_tree/_path/_sum.py	M	BinaryTreePathSum.__init__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/binary/_tree/_traversals.py	F	level_order	A	5

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/binary\_tree/binary\_tree\_traversals.py	F	zigzag	A	4
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/binary\_tree/binary\_tree\_traversals.py	F	preorder	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/binary\_tree/binary\_tree\_traversals.py	F	postorder	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/binary\_tree/binary\_tree\_traversals.py	F	inorder	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/binary\_tree/binary\_tree\_traversals.py	F	reverse_inorder	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/binary\_tree/binary\_tree\_traversals.py	F	height	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/binary\_tree/binary\_tree\_traversals.py	F	main	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/binary\_tree/binary\_tree\_traversals.py	F	make_tree	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/binary\_tree/binary\_tree\_traversals.py	F	get_nodes_from_left_to_right	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/binary\_tree/binary\_tree\_traversals.py	F	get_nodes_from_right_to_left	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/binary\_tree/binary\_tree\_traversals.py	C	Node	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/binary\_tree/diameter\_of\_binary\_tree.py	C	Node	A	4

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/binary\_tree/diameter\_of\_binary\_tree.py	M	Node.depth	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/binary\_tree/diameter\_of\_binary\_tree.py	M	Node.diameter	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/binary\_tree/diff\_views\_of\_binary\_tree.py	F	binary_tree_right_side_view	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/binary\_tree/diff\_views\_of\_binary\_tree.py	F	binary_tree_left_side_view	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/binary\_tree/diff\_views\_of\_binary\_tree.py	F	binary_tree_top_side_view	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/binary\_tree/diff\_views\_of\_binary\_tree.py	F	binary_tree_bottom_side_view	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/binary\_tree/diff\_views\_of\_binary\_tree.py	F	make_tree	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/binary\_tree/diff\_views\_of\_binary\_tree.py	C	TreeNode	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/binary\_tree/distribute\_coins.py	F	distribute_coins	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/binary\_tree/distribute\_coins.py	C	TreeNode	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/binary\_tree/distribute\_coins.py	C	CoinsDistribResult	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/binary\_tree/fenwick\_tree.py	M	FenwickTree.rank_query	B	6
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/binary\_tree/fenwick\_tree.py	M	FenwickTree.__init__	A	4

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/binary\_tree/fenwick\_tree.py	C	FenwickTree	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/binary\_tree/fenwick\_tree.py	M	FenwickTree.init	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/binary\_tree/fenwick\_tree.py	M	FenwickTree.get_array	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/binary\_tree/fenwick\_tree.py	M	FenwickTree.add	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/binary\_tree/fenwick\_tree.py	M	FenwickTree.prefix	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/binary\_tree/fenwick\_tree.py	M	FenwickTree.next_	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/binary\_tree/fenwick\_tree.py	M	FenwickTree.prev	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/binary\_tree/fenwick\_tree.py	M	FenwickTree.update	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/binary\_tree/fenwick\_tree.py	M	FenwickTree.query	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/binary\_tree/fenwick\_tree.py	M	FenwickTree.get	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/binary\_tree/flatten\_binarytree\_to\_linkedlist.py	F	flatten	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/binary\_tree/flatten\_binarytree\_to\_linkedlist.py	F	display_linked_list	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/binary\_tree/flatten\_binarytree\_to\_linkedlist.py	C	TreeNode	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/binary\_tree/flatten\_binarytree\_to\_linkedlist.py	F	build_tree	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/binary\_tree/flatten\_binarytree\_to\_linkedlist.py	M	TreeNode.__init__	A	1

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/floor/_and/_ceiling.py	F	floor_ceiling	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/floor/_and/_ceiling.py	C	Node	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/floor/_and/_ceiling.py	M	Node.__iter__	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/floor/_and/_ceiling.py	M	Node.__len__	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/inorder/_tree/_traversal/_2022.py	F	insert	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/inorder/_tree/_traversal/_2022.py	F	inorder	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/inorder/_tree/_traversal/_2022.py	C	BinaryTreeNode	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/inorder/_tree/_traversal/_2022.py	F	make_tree	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/inorder/_tree/_traversal/_2022.py	F	main	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/inorder/_tree/_traversal/_2022.py	M	BinaryTreeNode.__init__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/is/_sorted.py	C	Node	B	6
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/is/_sorted.py	M	Node.is_sorted	B	6
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/is/_sorted.py	M	Node.__iter__	A	3

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/is/_sum/_tree.py	M	Node.is_sum_node	B	7
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/is/_sum/_tree.py	C	Node	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/is/_sum/_tree.py	M	Node.__iter__	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/is/_sum/_tree.py	M	Node.__len__	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/is/_sum/_tree.py	C	BinaryTree	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/is/_sum/_tree.py	M	BinaryTree.__iter__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/is/_sum/_tree.py	M	BinaryTree.__len__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/is/_sum/_tree.py	M	BinaryTree.__str__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/is/_sum/_tree.py	M	BinaryTree.is_sum_tree	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/is/_sum/_tree.py	M	BinaryTree.build_a_tree	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/is/_sum/_tree.py	M	BinaryTree.build_a_sum_tree	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/lazy/_segment/_tree.py	M	SegmentTree.update	B	8
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/lazy/_segment/_tree.py	M	SegmentTree.query	B	7
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/lazy/_segment/_tree.py	C	SegmentTree	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/lazy/_segment/_tree.py	M	SegmentTree.__init__	A	4

（续下页）



文件	类型	符号（函数/方法）	等级	分数
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/binary\_tree/lazy\_segment\_tree.py	M	SegmentTree.build	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/binary\_tree/lazy\_segment\_tree.py	M	SegmentTree.__str__	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/binary\_tree/lazy\_segment\_tree.py	M	SegmentTree.left	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/binary\_tree/lazy\_segment\_tree.py	M	SegmentTree.right	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/binary\_tree/lowest\_common\_ancestor.py	F	lowest_common_ancestor	B	7
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/binary\_tree/lowest\_common\_ancestor.py	F	breadth_first_search	A	4
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/binary\_tree/lowest\_common\_ancestor.py	F	main	A	4
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/binary\_tree/lowest\_common\_ancestor.py	F	create_sparse	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/binary\_tree/lowest\_common\_ancestor.py	F	swap	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/binary\_tree/maximum\_fenwick\_tree.py	C	MaxFenwickTree	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/binary\_tree/maximum\_fenwick\_tree.py	M	MaxFenwickTree.update	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/binary\_tree/maximum\_fenwick\_tree.py	M	MaxFenwickTree.query	A	3

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/maximum/_fenwick/_tree.py	M	MaxFenwickTree.__init__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/maximum/_fenwick/_tree.py	M	MaxFenwickTree.get_next	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/maximum/_fenwick/_tree.py	M	MaxFenwickTree.get_prev	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/maximum/_sum/_bst.py	F	max_sum_bst	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/maximum/_sum/_bst.py	C	TreeNode	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/merge/_two/_binary/_trees.py	F	merge_two_binary_trees	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/merge/_two/_binary/_trees.py	F	print_preorder	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/merge/_two/_binary/_trees.py	C	Node	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/merge/_two/_binary/_trees.py	M	Node.__init__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/mirror/_binary/_tree.py	C	Node	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/mirror/_binary/_tree.py	M	Node.__iter__	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/mirror/_binary/_tree.py	M	Node.mirror	A	3

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/binary\_tree/mirror\_binary\_tree.py	F	main	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/binary\_tree/mirror\_binary\_tree.py	M	Node.__len__	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/binary\_tree/mirror\_binary\_tree.py	F	make_tree_seven	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/binary\_tree/mirror\_binary\_tree.py	F	make_tree_nine	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/binary\_tree/number\_of\_possible\_binary\_trees.py	F	factorial	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/binary\_tree/number\_of\_possible\_binary\_trees.py	F	binomial_coefficient	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/binary\_tree/number\_of\_possible\_binary\_trees.py	F	catalan_number	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/binary\_tree/number\_of\_possible\_binary\_trees.py	F	binary_tree_count	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/binary\_tree/red\_black\_tree.py	M	RedBlackTree._remove_repair	E	31
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/binary\_tree/red\_black\_tree.py	M	RedBlackTree.remove	C	19
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/binary\_tree/red\_black\_tree.py	M	RedBlackTree._insert_repair	C	17
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/binary\_tree/red\_black\_tree.py	F	pytest	B	8
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/binary\_tree/red\_black\_tree.py	M	RedBlackTree.insert	B	7
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/binary\_tree/red\_black\_tree.py	M	RedBlackTree.black_height	B	7

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/red/_black/_tree.py	M	RedBlackTree.floor	B	7
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/red/_black/_tree.py	M	RedBlackTree.ceil	B	7
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/red/_black/_tree.py	M	RedBlackTree.__repr__	B	7
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/red/_black/_tree.py	C	RedBlackTree	B	6
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/red/_black/_tree.py	M	RedBlackTree.check_coloring	B	6
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/red/_black/_tree.py	M	RedBlackTree.search	B	6
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/red/_black/_tree.py	M	RedBlackTree.rotate_left	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/red/_black/_tree.py	M	RedBlackTree.rotate_right	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/red/_black/_tree.py	F	test_insert_and_search	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/red/_black/_tree.py	F	test_floor_ceil	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/red/_black/_tree.py	M	RedBlackTree.check_color_properties		4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/red/_black/_tree.py	M	RedBlackTree.__eq__	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/red/_black/_tree.py	F	test_tree_traversal	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/red/_black/_tree.py	F	test_tree_chaining	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/red/_black/_tree.py	M	RedBlackTree.sibling	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/red/_black/_tree.py	M	RedBlackTree.__len__	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/red/_black/_tree.py	M	RedBlackTree.preorder_traversal	A	3

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/red/_black/_tree.py	M	RedBlackTree.inorder_traverse	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/red/_black/_tree.py	M	RedBlackTree.postorder_traverse	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/red/_black/_tree.py	F	color	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/red/_black/_tree.py	F	test_rotations	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/red/_black/_tree.py	F	test_insertion_speed	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/red/_black/_tree.py	F	test_insert_delete	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/red/_black/_tree.py	F	test_min_max	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/red/_black/_tree.py	F	print_results	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/red/_black/_tree.py	M	RedBlackTree.get_max	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/red/_black/_tree.py	M	RedBlackTree.get_min	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/red/_black/_tree.py	M	RedBlackTree.grandparent	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/red/_black/_tree.py	M	RedBlackTree.is_left	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/red/_black/_tree.py	M	RedBlackTree.is_right	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/red/_black/_tree.py	F	test_insert	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/red/_black/_tree.py	F	main	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/red/_black/_tree.py	M	RedBlackTree.__init__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/red/_black/_tree.py	M	RedBlackTree.__contains__	A	1

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/red/_black/_tree.py	M	RedBlackTree.__bool__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/segment/_tree.py	M	SegmentTree.query_recursive	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/segment/_tree.py	M	SegmentTree.update_recursive	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/segment/_tree.py	C	SegmentTree	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/segment/_tree.py	M	SegmentTree.__init__	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/segment/_tree.py	M	SegmentTree.build	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/segment/_tree.py	M	SegmentTree.show_data	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/segment/_tree.py	M	SegmentTree.left	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/segment/_tree.py	M	SegmentTree.right	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/segment/_tree.py	M	SegmentTree.update	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/segment/_tree.py	M	SegmentTree.query	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/segment/_tree/_other.py	M	SegmentTree._query_range	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/segment/_tree/_other.py	M	SegmentTree.traverse	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/segment/_tree/_other.py	C	SegmentTree	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/segment/_tree/_other.py	M	SegmentTree._update_tree	A	4

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/segment/_tree/_other.py	C	SegmentTreeNode	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/segment/_tree/_other.py	M	SegmentTree.__init__	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/segment/_tree/_other.py	M	SegmentTree._build_tree	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/segment/_tree/_other.py	M	SegmentTreeNode.__init__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/segment/_tree/_other.py	M	SegmentTreeNode.__repr__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/segment/_tree/_other.py	M	SegmentTree.update	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/segment/_tree/_other.py	M	SegmentTree.query_range	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/serialize/_deserialize/_binary/_tree.py	C	TreeNode	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/serialize/_deserialize/_binary/_tree.py	M	TreeNode.__iter__	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/serialize/_deserialize/_binary/_tree.py	F	deserialize	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/serialize/_deserialize/_binary/_tree.py	M	TreeNode.__post_init__	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/serialize/_deserialize/_binary/_tree.py	M	TreeNode.__len__	A	2

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structure/s/binary\_tree/serialize\_deserialize\_binary\_tree.py	M	TreeNode.__repr__	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structure/s/binary\_tree/serialize\_deserialize\_binary\_tree.py	M	TreeNode.five_tree	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structure/s/binary\_tree/symmetric\_tree.py	F	is_mirror	B	7
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structure/s/binary\_tree/symmetric\_tree.py	F	is_symmetric_tree	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structure/s/binary\_tree/symmetric\_tree.py	F	make_symmetric_tree	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structure/s/binary\_tree/symmetric\_tree.py	F	make_asymmetric_tree	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structure/s/binary\_tree/symmetric\_tree.py	C	Node	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structure/s/binary\_tree/treap.py	F	merge	A	5
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structure/s/binary\_tree/treap.py	F	split	A	4
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structure/s/binary\_tree/treap.py	F	interact_treap	A	4
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structure/s/binary\_tree/treap.py	C	Node	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structure/s/binary\_tree/treap.py	M	Node.__repr__	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structure/s/binary\_tree/treap.py	M	Node.__str__	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structure/s/binary\_tree/treap.py	F	inorder	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structure/s/binary\_tree/treap.py	F	main	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structure/s/binary\_tree/treap.py	F	insert	A	1

（续下页）



文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/treap.py	F	erase	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/treap.py	M	Node.__init__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/wavelet/_tree.py	F	range_counting	B	10
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/wavelet/_tree.py	F	quantile	B	9
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/wavelet/_tree.py	F	rank_till_index	B	6
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/wavelet/_tree.py	F	build_tree	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/wavelet/_tree.py	F	rank	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/wavelet/_tree.py	C	Node	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/wavelet/_tree.py	M	Node.__init__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/binary/_tree/wavelet/_tree.py	M	Node.__repr__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/disjoint/_set/alternate/_disjoint_set.py	M	DisjointSet.merge	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/disjoint/_set/alternate/_disjoint_set.py	C	DisjointSet	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/disjoint/_set/alternate/_disjoint_set.py	M	DisjointSet.get_parent	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/disjoint/_set/alternate/_disjoint_set.py	M	DisjointSet.__init__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/disjoint/_set/disjoint_set.py	F	test_disjoint_set	B	8

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/disjoint/_set/disjoint/_set.py	F	union_set	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/disjoint/_set/disjoint/_set.py	F	find_python_set	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/disjoint/_set/disjoint/_set.py	F	find_set	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/disjoint/_set/disjoint/_set.py	C	Node	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/disjoint/_set/disjoint/_set.py	F	make_set	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/disjoint/_set/disjoint/_set.py	M	Node.__init__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/hashing/bloom/_filter.py	C	Bloom	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/hashing/bloom/_filter.py	M	Bloom.hash_	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/hashing/bloom/_filter.py	M	Bloom.__init__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/hashing/bloom/_filter.py	M	Bloom.add	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/hashing/bloom/_filter.py	M	Bloom.exists	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/hashing/bloom/_filter.py	M	Bloom.__contains__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/hashing/bloom/_filter.py	M	Bloom.format_bin	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/hashing/bloom/_filter.py	M	Bloom.bitstring	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/hashing/bloom/_filter.py	M	Bloom.format_hash	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/hashing/bloom/_filter.py	M	Bloom.estimated_error_rate	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/hashing/double/_hash.py	M	DoubleHash._collision_resolution	A	5

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_/_Python/data/_structures/hashing/double/_hash.py	C	DoubleHash	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_/_Python/data/_structures/hashing/double/_hash.py	M	DoubleHash.__hash_function_2	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_/_Python/data/_structures/hashing/double/_hash.py	M	DoubleHash.__init__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_/_Python/data/_structures/hashing/double/_hash.py	M	DoubleHash.__hash_double_function	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_/_Python/data/_structures/hashing/hash/_table.py	M	HashTable._collision_resolution	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_/_Python/data/_structures/hashing/hash/_table.py	M	HashTable.rehashing	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_/_Python/data/_structures/hashing/hash/_table.py	M	HashTable.insert_data	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_/_Python/data/_structures/hashing/hash/_table.py	C	HashTable	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_/_Python/data/_structures/hashing/hash/_table.py	M	HashTable.__init__	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_/_Python/data/_structures/hashing/hash/_table.py	M	HashTable.balanced_factor	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_/_Python/data/_structures/hashing/hash/_table.py	M	HashTable.bulk_insert	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_/_Python/data/_structures/hashing/hash/_table.py	M	HashTable.keys	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_/_Python/data/_structures/hashing/hash/_table.py	M	HashTable.hash_function	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_/_Python/data/_structures/hashing/hash/_table.py	M	HashTable._step_by_step	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_/_Python/data/_structures/hashing/hash/_table.py	M	HashTable._set_value	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_/_Python/data/_structures/hashing/hash/_table/_with/_linked/_list.py	C	HashTableWithLinkedList	A	3

（续下页）

文件	类型	符号 (函数/方法)	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/hashing/hash/_table/_with/_linked/_list.py	M	HashTableWithLinkedList._collision_resolution		1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/hashing/hash/_table/_with/_linked/_list.py	M	HashTableWithLinkedList._set_value		2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/hashing/hash/_table/_with/_linked/_list.py	M	HashTableWithLinkedList.balanced_factor		2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/hashing/hash/_table/_with/_linked/_list.py	M	HashTableWithLinkedList.__init__		1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/hashing/quadratic/_probing.py	M	QuadraticProbing._collision_resolution		5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/hashing/quadratic/_probing.py	C	QuadraticProbing	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/hashing/quadratic/_probing.py	M	QuadraticProbing.__init__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/hashing/number/_theory/prime/_numbers.py	F	is_prime	B	6
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/hashing/number/_theory/prime/_numbers.py	F	next_prime	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/hashing/tests/test/_hash/_map.py	F	test_hash_map_is_the_same_as_dict		7
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/hashing/tests/test/_hash/_map.py	F	test_no_new_methods_was_added_to_api		6
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/hashing/tests/test/_hash/_map.py	F	_run_operation	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/hashing/tests/test/_hash/_map.py	F	_get	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/hashing/tests/test/_hash/_map.py	F	_set	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/hashing/tests/test/_hash/_map.py	F	_del	A	1

(续下页)

文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/heap/binomial/_heap.py	M	BinomialHeap.merge_heaps	C	19
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/heap/binomial/_heap.py	M	BinomialHeap.delete_min	C	16
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/heap/binomial/_heap.py	C	BinomialHeap	B	6
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/heap/binomial/_heap.py	M	BinomialHeap.insert	B	6
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/heap/binomial/_heap.py	M	Node.merge_trees	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/heap/binomial/_heap.py	C	Node	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/heap/binomial/_heap.py	M	BinomialHeap.__str__	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/heap/binomial/_heap.py	M	BinomialHeap.pre_order	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/heap/binomial/_heap.py	M	BinomialHeap.__traversal	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/heap/binomial/_heap.py	M	Node.__init__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/heap/binomial/_heap.py	M	BinomialHeap.__init__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/heap/binomial/_heap.py	M	BinomialHeap.peek	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/heap/binomial/_heap.py	M	BinomialHeap.is_empty	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/heap/heap/_generic.py	M	Heap._get_valid_parent	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/heap/heap/_generic.py	C	Heap	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/heap/heap/_generic.py	M	Heap._heapify_up	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/heap/heap/_generic.py	M	Heap.delete_item	A	3

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/heap/heap_generic.py	M	Heap.__init__	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/heap/heap_generic.py	M	Heap._parent	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/heap/heap_generic.py	M	Heap._left	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/heap/heap_generic.py	M	Heap._right	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/heap/heap_generic.py	M	Heap._heapify_down	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/heap/heap_generic.py	M	Heap.update_item	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/heap/heap_generic.py	M	Heap.insert_item	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/heap/heap_generic.py	M	Heap.get_top	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/heap/heap_generic.py	M	Heap.extract_top	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/heap/heap_generic.py	F	test_heap	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/heap/heap_generic.py	M	Heap._swap	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/heap/heap_generic.py	M	Heap._cmp	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/heap/max_heap.py	M	BinaryHeap.__swap_down	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/heap/max_heap.py	C	BinaryHeap	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/heap/max_heap.py	M	BinaryHeap.__swap_up	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/heap/max_heap.py	M	BinaryHeap.__init__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/heap/max_heap.py	M	BinaryHeap.insert	A	1

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/heap/max/_heap.py	M	BinaryHeap.pop	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/heap/max/_heap.py	M	BinaryHeap.get_list	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/heap/max/_heap.py	M	BinaryHeap.__len__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/heap/min/_heap.py	M	MinHeap.sift_down	B	7
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/heap/min/_heap.py	M	MinHeap.build_heap	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/heap/min/_heap.py	M	MinHeap.sift_up	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/heap/min/_heap.py	C	Node	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/heap/min/_heap.py	C	MinHeap	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/heap/min/_heap.py	M	MinHeap.decrease_key	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/heap/min/_heap.py	M	Node.__init__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/heap/min/_heap.py	M	Node.__str__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/heap/min/_heap.py	M	Node.__lt__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/heap/min/_heap.py	M	MinHeap.__init__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/heap/min/_heap.py	M	MinHeap.__getitem__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/heap/min/_heap.py	M	MinHeap.get_parent_idx	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/heap/min/_heap.py	M	MinHeap.get_left_child_idx	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/heap/min/_heap.py	M	MinHeap.get_right_child_idx	A	1

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/heap/min/_heap.py	M	MinHeap.get_value	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/heap/min/_heap.py	M	MinHeap.peek	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/heap/min/_heap.py	M	MinHeap.remove	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/heap/min/_heap.py	M	MinHeap.insert	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/heap/min/_heap.py	M	MinHeap.is_empty	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/kd/_tree/build/_kdtree.py	F	build_kdtree	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/kd/_tree/kd/_node.py	C	KDNode	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/kd/_tree/kd/_node.py	M	KDNode.__init__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/kd/_tree/nearest/_neighbour/_search.py	F	nearest_neighbour_search	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/kd/_tree/example/example/_usage.py	F	main	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/kd/_tree/example/hypercube/_points.py	F	hypercube_points	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/kd/_tree/tests/test/_kdtree.py	F	test_build_kdtree	B	7
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/kd/_tree/tests/test/_kdtree.py	F	test_nearest_neighbour_search	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/kd/_tree/tests/test/_kdtree.py	F	test_edge_cases	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/linked/_list/circular/_linked/_list.py	F	test_circular_linked_list	D	24

（续下页）



文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/linked/_list/circular/_linked/_list.py	M	CircularLinkedList.delete_nth	C	12
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/linked/_list/circular/_linked/_list.py	M	CircularLinkedList.insert_nth	B	10
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/linked/_list/circular/_linked/_list.py	C	CircularLinkedList	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/linked/_list/circular/_linked/_list.py	M	CircularLinkedList.__iter__	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/linked/_list/circular/_linked/_list.py	M	CircularLinkedList.__len__	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/linked/_list/circular/_linked/_list.py	M	CircularLinkedList.__repr__	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/linked/_list/circular/_linked/_list.py	C	Node	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/linked/_list/circular/_linked/_list.py	M	CircularLinkedList.insert_tail	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/linked/_list/circular/_linked/_list.py	M	CircularLinkedList.insert_head	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/linked/_list/circular/_linked/_list.py	M	CircularLinkedList.delete_front	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/linked/_list/circular/_linked/_list.py	M	CircularLinkedList.delete_tail	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/linked/_list/circular/_linked/_list.py	M	CircularLinkedList.is_empty	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/linked/_list/deque/_doubly.py	C	_DoublyLinkedListBase	A	2

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/linked/_list/deque/_doubly.py	C	LinkedDeque	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/linked/_list/deque/_doubly.py	M	LinkedDeque.first	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/linked/_list/deque/_doubly.py	M	LinkedDeque.last	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/linked/_list/deque/_doubly.py	M	LinkedDeque.remove_first	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/linked/_list/deque/_doubly.py	M	LinkedDeque.remove_last	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/linked/_list/deque/_doubly.py	M	_DoublyLinkedListBase.__init__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/linked/_list/deque/_doubly.py	M	_DoublyLinkedListBase.__len__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/linked/_list/deque/_doubly.py	M	_DoublyLinkedListBase.is_empty	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/linked/_list/deque/_doubly.py	M	_DoublyLinkedListBase._insert	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/linked/_list/deque/_doubly.py	M	_DoublyLinkedListBase._delete	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/linked/_list/deque/_doubly.py	M	LinkedDeque.add_first	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/linked/_list/deque/_doubly.py	M	LinkedDeque.add_last	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/linked/_list/doubly/_linked/_list.py	F	test_doubly_linked_list	C	16
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/linked/_list/doubly/_linked/_list.py	M	DoublyLinkedList.insert_at_nth		6
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/linked/_list/doubly/_linked/_list.py	M	DoublyLinkedList.delete_at_nth		6

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/linked/_list/doubly/_linked/_list.py	M	DoublyLinkedList.delete	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/linked/_list/doubly/_linked/_list.py	C	DoublyLinkedList	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/linked/_list/doubly/_linked/_list.py	C	Node	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/linked/_list/doubly/_linked/_list.py	M	DoublyLinkedList.__iter__	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/linked/_list/doubly/_linked/_list.py	M	DoublyLinkedList.__str__	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/linked/_list/doubly/_linked/_list.py	M	DoublyLinkedList.__len__	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/linked/_list/doubly/_linked/_list.py	M	Node.__init__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/linked/_list/doubly/_linked/_list.py	M	Node.__str__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/linked/_list/doubly/_linked/_list.py	M	DoublyLinkedList.__init__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/linked/_list/doubly/_linked/_list.py	M	DoublyLinkedList.insert_at_head	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/linked/_list/doubly/_linked/_list.py	M	DoublyLinkedList.insert_at_tail	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/linked/_list/doubly/_linked/_list.py	M	DoublyLinkedList.delete_head	A	1

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/linked/_list/doubly/_linked/_list.py	M	DoublyLinkedList.delete_tail	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/linked/_list/doubly/_linked/_list.py	M	DoublyLinkedList.is_empty	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/linked/_list/floyds/_cycle/_detection.py	M	LinkedList.detect_cycle	B	6
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/linked/_list/floyds/_cycle/_detection.py	C	LinkedList	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/linked/_list/floyds/_cycle/_detection.py	M	LinkedList.__iter__	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/linked/_list/floyds/_cycle/_detection.py	M	LinkedList.add_node	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/linked/_list/floyds/_cycle/_detection.py	C	Node	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/linked/_list/from/_sequence.py	F	make_linked_list	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/linked/_list/from/_sequence.py	C	Node	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/linked/_list/from/_sequence.py	M	Node.__repr__	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/linked/_list/from/_sequence.py	M	Node.__init__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/linked/_list/has/_loop.py	C	Node	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/linked/_list/has/_loop.py	M	Node.__iter__	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/linked/_list/has/_loop.py	M	Node.has_loop	A	2

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/linked\_list/has\_loop.py	C	ContainsLoopError	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/linked\_list/has\_loop.py	M	Node.__init__	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/linked\_list/is\_palindrome.py	F	is\_palindrome\_stack	C	11
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/linked\_list/is\_palindrome.py	F	is\_palindrome	B	10
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/linked\_list/is\_palindrome.py	F	is\_palindrome\_dict	B	10
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/linked\_list/is\_palindrome.py	C	ListNode	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/linked\_list/merge\_two\_lists.py	C	SortedList	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/linked\_list/merge\_two\_lists.py	M	SortedList.__init__	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/linked\_list/merge\_two\_lists.py	M	SortedList.__iter__	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/linked\_list/merge\_two\_lists.py	M	SortedList.__len__	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/linked\_list/merge\_two\_lists.py	M	SortedList.__str__	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/linked\_list/merge\_two\_lists.py	F	merge\_lists	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/linked\_list/merge\_two\_lists.py	C	Node	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/linked\_list/middle\_element\_of\_linked\_list.py	M	LinkedList.middle\_element	A	4

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/linked\_list/middle\_element\_of\_linked\_list.py	C	LinkedList	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/linked\_list/middle\_element\_of\_linked\_list.py	C	Node	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/linked\_list/middle\_element\_of\_linked\_list.py	M	Node.__init__	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/linked\_list/middle\_element\_of\_linked\_list.py	M	LinkedList.__init__	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/linked\_list/middle\_element\_of\_linked\_list.py	M	LinkedList.push	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/linked\_list/print\_reverse.py	C	LinkedList	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/linked\_list/print\_reverse.py	F	make_linked_list	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/linked\_list/print\_reverse.py	F	in_reverse	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/linked\_list/print\_reverse.py	M	LinkedList.__iter__	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/linked\_list/print\_reverse.py	M	LinkedList.__repr__	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/linked\_list/print\_reverse.py	M	LinkedList.append	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/linked\_list/print\_reverse.py	M	LinkedList.extend	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/linked\_list/print\_reverse.py	C	Node	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/linked\_list/print\_reverse.py	M	LinkedList.__init__	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/linked\_list/reverse\_k\_group.py	M	LinkedList.reverse_k_nodes	B	8

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D: /code\_assistant/Git\_repo/TheAlgorithms\\_Python/data\_structures/linked\_list/reverse\_k\_group.py	C	LinkedList	A	4
D: /code\_assistant/Git\_repo/TheAlgorithms\\_Python/data\_structures/linked\_list/reverse\_k\_group.py	M	LinkedList.append	A	3
D: /code\_assistant/Git\_repo/TheAlgorithms\\_Python/data\_structures/linked\_list/reverse\_k\_group.py	M	LinkedList.__init__	A	2
D: /code\_assistant/Git\_repo/TheAlgorithms\\_Python/data\_structures/linked\_list/reverse\_k\_group.py	M	LinkedList.__iter__	A	2
D: /code\_assistant/Git\_repo/TheAlgorithms\\_Python/data\_structures/linked\_list/reverse\_k\_group.py	M	LinkedList.__len__	A	2
D: /code\_assistant/Git\_repo/TheAlgorithms\\_Python/data\_structures/linked\_list/reverse\_k\_group.py	M	LinkedList.__str__	A	2
D: /code\_assistant/Git\_repo/TheAlgorithms\\_Python/data\_structures/linked\_list/reverse\_k\_group.py	C	Node	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\\_Python/data\_structures/linked\_list/rotate\_to\_the\_right.py	F	rotate_to_the_right	B	10
D:/code\_assistant/Git\_repo/TheAlgorithms\\_Python/data\_structures/linked\_list/rotate\_to\_the\_right.py	F	print_linked_list	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\\_Python/data\_structures/linked\_list/rotate\_to\_the\_right.py	F	insert_node	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\\_Python/data\_structures/linked\_list/rotate\_to\_the\_right.py	C	Node	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\\_Python/data\_structures/linked\_list/singly\_linked\_list.py	F	test_singly_linked_list	C	20

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/linked/_list/singly/_linked/_list.py	F	test_singly_linked_list_2	C	13
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/linked/_list/singly/_linked/_list.py	M	LinkedList.insert_nth	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/linked/_list/singly/_linked/_list.py	M	LinkedList.__getitem__	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/linked/_list/singly/_linked/_list.py	M	LinkedList.delete_nth	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/linked/_list/singly/_linked/_list.py	C	LinkedList	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/linked/_list/singly/_linked/_list.py	M	LinkedList.__setitem__	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/linked/_list/singly/_linked/_list.py	C	Node	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/linked/_list/singly/_linked/_list.py	M	LinkedList.__iter__	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/linked/_list/singly/_linked/_list.py	M	LinkedList.__len__	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/linked/_list/singly/_linked/_list.py	M	LinkedList.__repr__	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/linked/_list/singly/_linked/_list.py	M	LinkedList.reverse	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/linked/_list/singly/_linked/_list.py	F	main	A	1

（续下页）



文件	类型	符号（函数/方法）	等级	分数
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/linked\_list/singly\_linked\_list.py	M	Node.__repr__	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/linked\_list/singly\_linked\_list.py	M	LinkedList.__init__	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/linked\_list/singly\_linked\_list.py	M	LinkedList.insert_tail	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/linked\_list/singly\_linked\_list.py	M	LinkedList.insert_head	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/linked\_list/singly\_linked\_list.py	M	LinkedList.print_list	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/linked\_list/singly\_linked\_list.py	M	LinkedList.delete_head	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/linked\_list/singly\_linked\_list.py	M	LinkedList.delete_tail	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/linked\_list/singly\_linked\_list.py	M	LinkedList.is_empty	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/linked\_list/swap\_nodes.py	M	LinkedList.swap_nodes	B	8
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/linked\_list/swap\_nodes.py	C	LinkedList	A	4
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/linked\_list/swap\_nodes.py	M	LinkedList.__iter__	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/linked\_list/swap\_nodes.py	M	LinkedList.__len__	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/linked\_list/swap\_nodes.py	C	Node	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/linked\_list/swap\_nodes.py	M	LinkedList.push	A	1

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/linked/_list/_/_init/_/_py	M	LinkedList.add	B	6
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/linked/_list/_/_init/_/_py	C	LinkedList	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/linked/_list/_/_init/_/_py	M	LinkedList.__str__	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/linked/_list/_/_init/_/_py	C	Node	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/linked/_list/_/_init/_/_py	M	LinkedList.remove	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/linked/_list/_/_init/_/_py	M	Node.__init__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/linked/_list/_/_init/_/_py	M	LinkedList.__init__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/linked/_list/_/_init/_/_py	M	LinkedList.is_empty	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/linked/_list/_/_init/_/_py	M	LinkedList.__len__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/queues/circular/_queue.py	C	CircularQueue	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/queues/circular/_queue.py	M	CircularQueue.first	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/queues/circular/_queue.py	M	CircularQueue.enqueue	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/queues/circular/_queue.py	M	CircularQueue.dequeue	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/queues/circular/_queue.py	M	CircularQueue.__init__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/queues/circular/_queue.py	M	CircularQueue.__len__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/queues/circular/_queue.py	M	CircularQueue.is_empty	A	1

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/queues/circular/_queue/_linked/_list.py	M	CircularQueueLinkedList.enqueue	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/queues/circular/_queue/_linked/_list.py	M	CircularQueueLinkedList.dequeue	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/queues/circular/_queue/_linked/_list.py	C	CircularQueueLinkedList	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/queues/circular/_queue/_linked/_list.py	M	CircularQueueLinkedList.is_empty	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/queues/circular/_queue/_linked/_list.py	M	CircularQueueLinkedList.check_is_full	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/queues/circular/_queue/_linked/_list.py	M	CircularQueueLinkedList.create_linked_list	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/queues/circular/_queue/_linked/_list.py	M	CircularQueueLinkedList.first	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/queues/circular/_queue/_linked/_list.py	M	CircularQueueLinkedList.check_can_perform_operation	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/queues/circular/_queue/_linked/_list.py	C	Node	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/queues/circular/_queue/_linked/_list.py	M	CircularQueueLinkedList.__init__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/queues/circular/_queue/_linked/_list.py	M	Node.__init__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/queues/double/_ended/_queue.py	M	Deque.__eq__	B	6
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/queues/double/_ended/_queue.py	C	Deque	A	3

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/queues/double/_ended/_queue.py	M	Deque.__init__	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/queues/double/_ended/_queue.py	M	Deque.append	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/queues/double/_ended/_queue.py	M	Deque.appendleft	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/queues/double/_ended/_queue.py	M	Deque.pop	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/queues/double/_ended/_queue.py	M	Deque.popleft	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/queues/double/_ended/_queue.py	M	Deque.__repr__	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/queues/double/_ended/_queue.py	M	Deque.extend	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/queues/double/_ended/_queue.py	M	Deque.extendleft	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/queues/double/_ended/_queue.py	M	Deque.is_empty	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/queues/double/_ended/_queue.py	M	Deque.__len__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/queues/double/_ended/_queue.py	M	Deque.__iter__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/queues/linked/_queue.py	M	LinkedList.get	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/queues/linked/_queue.py	C	LinkedList	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/queues/linked/_queue.py	M	LinkedList.put	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/queues/linked/_queue.py	C	Node	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/queues/linked/_queue.py	M	LinkedList.__iter__	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/queues/linked/_queue.py	M	LinkedList.__str__	A	2

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/queues/linked\_queue.py	M	Node.__init__	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/queues/linked\_queue.py	M	Node.__str__	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/queues/linked\_queue.py	M	LinkedList.__init__	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/queues/linked\_queue.py	M	LinkedList.__len__	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/queues/linked\_queue.py	M	LinkedList.is_empty	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/queues/linked\_queue.py	M	LinkedList.clear	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/queues/priority\_queue\_using\_list.py	C	FixedPriorityQueue	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/queues/priority\_queue\_using\_list.py	M	FixedPriorityQueue.enqueue	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/queues/priority\_queue\_using\_list.py	M	FixedPriorityQueue.dequeue	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/queues/priority\_queue\_using\_list.py	M	FixedPriorityQueue.__str__	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/queues/priority\_queue\_using\_list.py	C	ElementPriorityQueue	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/queues/priority\_queue\_using\_list.py	M	ElementPriorityQueue.enqueue	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/queues/priority\_queue\_using\_list.py	M	ElementPriorityQueue.dequeue	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/queues/priority\_queue\_using\_list.py	F	fixed_priority_queue	A	1

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/queues/priority\_queue\_using\_list.py	F	element\_priority\_queue	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/queues/priority\_queue\_using\_list.py	C	OverFlowError	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/queues/priority\_queue\_using\_list.py	C	UnderFlowError	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/queues/priority\_queue\_using\_list.py	M	FixedPriorityQueue.__init__	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/queues/priority\_queue\_using\_list.py	M	ElementPriorityQueue.__init__	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/queues/priority\_queue\_using\_list.py	M	ElementPriorityQueue.__str__	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/queues/queue\_on\_pseudo\_stack.py	C	Queue	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/queues/queue\_on\_pseudo\_stack.py	M	Queue.rotate	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/queues/queue\_on\_pseudo\_stack.py	M	Queue.__init__	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/queues/queue\_on\_pseudo\_stack.py	M	Queue.__str__	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/queues/queue\_on\_pseudo\_stack.py	M	Queue.put	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/data\_structures/queues/queue\_on\_pseudo\_stack.py	M	Queue.get	A	1

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D: /code\_assistant/Git\_repo/TheAlgorithms\\\_Python/data\_structures/queues/queue\_on\_pseudo\_stack.py	M	Queue.front	A	1
D: /code\_assistant/Git\_repo/TheAlgorithms\\\_Python/data\_structures/queues/queue\_on\_pseudo\_stack.py	M	Queue.size	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\\\_Python/data\_structures/stacks/balanced\_parentheses.py	F	balanced_parentheses	B	6
D:/code\_assistant/Git\_repo/TheAlgorithms\\\_Python/data\_structures/stacks/dijkstras\_two\_stack\_algorithm.py	F	dijkstras_two_stack_algorithm	A	5
D:/code\_assistant/Git\_repo/TheAlgorithms\\\_Python/data\_structures/stacks/infix\_to\_postfix\_conversion.py	F	infix_to_postfix	C	15
D:/code\_assistant/Git\_repo/TheAlgorithms\\\_Python/data\_structures/stacks/infix\_to\_postfix\_conversion.py	F	precedence	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\\\_Python/data\_structures/stacks/infix\_to\_postfix\_conversion.py	F	associativity	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\\\_Python/data\_structures/stacks/infix\_to\_prefix\_conversion.py	F	infix_2_postfix	C	14
D:/code\_assistant/Git\_repo/TheAlgorithms\\\_Python/data\_structures/stacks/infix\_to\_prefix\_conversion.py	F	infix_2_prefix	A	4
D:/code\_assistant/Git\_repo/TheAlgorithms\\\_Python/data\_structures/stacks/largest\_rectangle\_area\_histogram.py	F	largest_rectangle_area	A	5
D: /code\_assistant/Git\_repo/TheAlgorithms\\\_Python/data\_structures/stacks/lexicographical\_numbers.py	F	lexical_order	A	4
D:/code\_assistant/Git\_repo/TheAlgorithms\\\_Python/data\_structures/stacks/next\_greater\_element.py	F	next_greatest_element	B	6
D:/code\_assistant/Git\_repo/TheAlgorithms\\\_Python/data\_structures/stacks/next\_greater\_element.py	F	next_greatest_element_slow	A	4

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/stacks/next\_greater\_element.py	F	next_greatest_element_fast	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/stacks/postfix\_evaluation.py	F	evaluate	C	15
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/stacks/postfix\_evaluation.py	F	parse_token	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/stacks/prefix\_evaluation.py	F	evaluate	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/stacks/prefix\_evaluation.py	F	evaluate_recursive	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/stacks/prefix\_evaluation.py	F	is_operand	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/stacks/stack\_using\_two\_queues.py	C	StackWithQueues	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/stacks/stack\_using\_two\_queues.py	M	StackWithQueues.push	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/stacks/stack\_using\_two\_queues.py	M	StackWithQueues.peek	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/stacks/stack\_using\_two\_queues.py	M	StackWithQueues.pop	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/stacks/stock\_span\_problem.py	F	calculate_span	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/stacks/stock\_span\_problem.py	F	print_array	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/suffix\_tree/suffix\_tree.py	C	SuffixTree	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/suffix\_tree/suffix\_tree.py	M	SuffixTree._add_suffix	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/suffix\_tree/suffix\_tree.py	M	SuffixTree.search	A	3

（续下页）



文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/suffix/_tree/suffix/_tree.py	M	SuffixTree.build_suffix_tree	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/suffix/_tree/suffix/_tree.py	M	SuffixTree.__init__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/suffix/_tree/suffix/_tree/_node.py	C	SuffixTreeNode	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/suffix/_tree/suffix/_tree/_node.py	M	SuffixTreeNode.__init__	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/suffix/_tree/example/example/_usage.py	F	main	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/suffix/_tree/tests/test\_suffix\_tree.py	C	TestSuffixTree	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/suffix/_tree/tests/test\_suffix\_tree.py	M	TestSuffixTree.test_search_existing_patterns	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/suffix/_tree/tests/test\_suffix\_tree.py	M	TestSuffixTree.test_search_non_existing_patterns	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/suffix/_tree/tests/test\_suffix\_tree.py	M	TestSuffixTree.test_search_substrings	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/suffix/_tree/tests/test\_suffix\_tree.py	M	TestSuffixTree.test_search_empty_pattern	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/suffix/_tree/tests/test\_suffix\_tree.py	M	TestSuffixTree.test_search_full_text	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/suffix/_tree/tests/test\_suffix\_tree.py	M	TestSuffixTree.setUp	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/trie/radix/_tree.py	M	RadixNode.delete	B	9

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/trie/radix_tree.py	F	test_trie	B	7
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/trie/radix_tree.py	M	RadixNode.insert	B	6
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/trie/radix_tree.py	C	RadixNode	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/trie/radix_tree.py	M	RadixNode.find	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/trie/radix_tree.py	M	RadixNode.print_tree	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/trie/radix_tree.py	M	RadixNode.match	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/trie/radix_tree.py	F	pytests	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/trie/radix_tree.py	M	RadixNode.insert_many	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/trie/radix_tree.py	F	main	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/trie/radix_tree.py	M	RadixNode.__init__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/trie/trie.py	F	test_trie	B	10
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/trie/trie.py	F	print_words	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/trie/trie.py	C	TrieNode	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/trie/trie.py	M	TrieNode.insert	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/trie/trie.py	M	TrieNode.find	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/trie/trie.py	F	print_results	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/trie/trie.py	F	pytests	A	2

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/trie/trie.py	M	TrieNode.insert_many	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/trie/trie.py	F	main	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/trie/trie.py	M	TrieNode.__init__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/data/_structures/trie/trie.py	M	TrieNode.delete	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/digital/_image/_processing/change_brightness.py	F	change_brightness	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/digital/_image/_processing/change_contrast.py	F	change_contrast	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/digital/_image/_processing/convert_to_negative.py	F	convert_to_negative	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/digital/_image/_processing/index_calculation.py	M	IndexCalculation.set_matrices	B	6
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/digital/_image/_processing/index_calculation.py	C	IndexCalculation	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/digital/_image/_processing/index_calculation.py	M	IndexCalculation.calculation	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/digital/_image/_processing/index_calculation.py	M	IndexCalculation.__init__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/digital/_image/_processing/index_calculation.py	M	IndexCalculation.arv12	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/digital/_image/_processing/index_calculation.py	M	IndexCalculation.ccci	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/digital/_image/_processing/index_calculation.py	M	IndexCalculation.cvi	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/digital/_image/_processing/index_calculation.py	M	IndexCalculation.gli	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/digital/_image/_processing/index_calculation.py	M	IndexCalculation.ndvi	A	1

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/digital_image_processing/index_calculation.py	M	IndexCalculation.bndvi	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/digital_image_processing/index_calculation.py	M	IndexCalculation.red_edge_ndv	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/digital_image_processing/index_calculation.py	M	IndexCalculation.gndvi	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/digital_image_processing/index_calculation.py	M	IndexCalculation.gbndvi	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/digital_image_processing/index_calculation.py	M	IndexCalculation.grndvi	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/digital_image_processing/index_calculation.py	M	IndexCalculation.rbndvi	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/digital_image_processing/index_calculation.py	M	IndexCalculation.pndvi	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/digital_image_processing/index_calculation.py	M	IndexCalculation.atsavi	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/digital_image_processing/index_calculation.py	M	IndexCalculation.bwdrvi	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/digital_image_processing/index_calculation.py	M	IndexCalculation.ci_green	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/digital_image_processing/index_calculation.py	M	IndexCalculation.ci_rededge	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/digital_image_processing/index_calculation.py	M	IndexCalculation.ci	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/digital_image_processing/index_calculation.py	M	IndexCalculation.ctvi	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/digital_image_processing/index_calculation.py	M	IndexCalculation.gdvi	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/digital_image_processing/index_calculation.py	M	IndexCalculation.evi	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/digital_image_processing/index_calculation.py	M	IndexCalculation.gemi	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/digital_image_processing/index_calculation.py	M	IndexCalculation.gosavi	A	1

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/digital_image_processing/index_calculation.py	M	IndexCalculation.gsavi	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/digital_image_processing/index_calculation.py	M	IndexCalculation.hue	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/digital_image_processing/index_calculation.py	M	IndexCalculation.ivl	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/digital_image_processing/index_calculation.py	M	IndexCalculation.ipvi	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/digital_image_processing/index_calculation.py	M	IndexCalculation.i	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/digital_image_processing/index_calculation.py	M	IndexCalculation.rvi	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/digital_image_processing/index_calculation.py	M	IndexCalculation.mrvi	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/digital_image_processing/index_calculation.py	M	IndexCalculation.m_savi	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/digital_image_processing/index_calculation.py	M	IndexCalculation.norm_g	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/digital_image_processing/index_calculation.py	M	IndexCalculation.norm_nir	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/digital_image_processing/index_calculation.py	M	IndexCalculation.norm_r	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/digital_image_processing/index_calculation.py	M	IndexCalculation.ngrdi	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/digital_image_processing/index_calculation.py	M	IndexCalculation.ri	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/digital_image_processing/index_calculation.py	M	IndexCalculation.s	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/digital_image_processing/index_calculation.py	M	IndexCalculation._if	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/digital_image_processing/index_calculation.py	M	IndexCalculation.dvi	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/digital_image_processing/index_calculation.py	M	IndexCalculation.tvi	A	1

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/digital_image_processing/index_calculation.py	M	IndexCalculation.ndre	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/digital_image_processing/sepia.py	F	make_sepia	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/digital_image_processing/test_digital_image_processing.py	F	test_local_binary_pattern	B	6
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/digital_image_processing/test_digital_image_processing.py	F	test_canny	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/digital_image_processing/test_digital_image_processing.py	F	test_sobel_filter	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/digital_image_processing/test_digital_image_processing.py	F	test_convert_to_negative	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/digital_image_processing/test_digital_image_processing.py	F	test_change_contrast	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/digital_image_processing/test_digital_image_processing.py	F	test_gen_gaussian_kernel	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/digital_image_processing/test_digital_image_processing.py	F	test_gen_gaussian_kernel_filter	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/digital_image_processing/test_digital_image_processing.py	F	test_convolve_filter	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/digital_image_processing/test_digital_image_processing.py	F	test_median_filter	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/digital_image_processing/test_digital_image_processing.py	F	test_sepia	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/digital_image_processing/test_digital_image_processing.py	F	test_burkes	A	2

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/digital_image_processing/test_digital_image_processing.py	F	test_nearest_neighbour	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/digital_image_processing/dithering/burkes.py	C	Burkes	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/digital_image_processing/dithering/burkes.py	M	Burkes.__init__	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/digital_image_processing/dithering/burkes.py	M	Burkes.process	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/digital_image_processing/dithering/burkes.py	M	Burkes.get_greyscale	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/digital_image_processing/edge_detection/canny.py	F	suppress_non_maximum	C	20
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/digital_image_processing/edge_detection/canny.py	F	detect_high_low_threshold	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/digital_image_processing/edge_detection/canny.py	F	track_edge	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/digital_image_processing/edge_detection/canny.py	F	gen_gaussian_kernel	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/digital_image_processing/edge_detection/canny.py	F	canny	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/digital_image_processing/filters/bilateral_filter.py	F	parse_args	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/digital_image_processing/filters/bilateral_filter.py	F	get_gauss_kernel	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/digital_image_processing/filters/bilateral_filter.py	F	bilateral_filter	A	3

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/digital\_image\_processing/filters/bilateral\_filter.py	F	vec_gaussian	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/digital\_image\_processing/filters/bilateral\_filter.py	F	get_slice	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/digital\_image\_processing/filters/convolve.py	F	im2col	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/digital\_image\_processing/filters/convolve.py	F	img_convolve	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/digital\_image\_processing/filters/gabor\_filter.py	F	gabor_filter_kernel	A	4
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/digital\_image\_processing/filters/gaussian\_filter.py	F	gaussian_filter	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/digital\_image\_processing/filters/gaussian\_filter.py	F	gen_gaussian_kernel	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/digital\_image\_processing/filters/laplacian\_filter.py	F	my_laplacian	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/digital\_image\_processing/filters/local\_binary\_pattern.py	F	local_binary_value	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/digital\_image\_processing/filters/local\_binary\_pattern.py	F	get_neighbors_pixel	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/digital\_image\_processing/filters/median\_filter.py	F	median_filter	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/digital\_image\_processing/filters/sobel\_filter.py	F	sobel_filter	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/digital\_image\_processing/histogram\_equalization/histogram\_stretch.py	M	ConstantStretch.stretch	B	7

（续下页）



文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/digital_image_processing/histogram/equalization/histogram_stretch.py	C	ConstantStretch	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/digital_image_processing/histogram/equalization/histogram_stretch.py	M	ConstantStretch.__init__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/digital_image_processing/histogram/equalization/histogram_stretch.py	M	ConstantStretch.plot_histogram	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/digital_image_processing/histogram/equalization/histogram_stretch.py	M	ConstantStretch.show_image	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/digital_image_processing/morphological_operations/dilation_operation.py	F	dilation	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/digital_image_processing/morphological_operations/dilation_operation.py	F	rgb_to_gray	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/digital_image_processing/morphological_operations/dilation_operation.py	F	gray_to_binary	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/digital_image_processing/morphological_operations/erosion_operation.py	F	erosion	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/digital_image_processing/morphological_operations/erosion_operation.py	F	rgb_to_gray	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/digital_image_processing/morphological_operations/erosion_operation.py	F	gray_to_binary	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/digital_image_processing/resize/resize.py	C	NearestNeighbour	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/digital_image_processing/resize/resize.py	M	NearestNeighbour.__init__	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/digital_image_processing/resize/resize.py	M	NearestNeighbour.process	A	3

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/digital_image_processing/resize/resize.py	M	NearestNeighbour.get_x	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/digital_image_processing/resize/resize.py	M	NearestNeighbour.get_y	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/digital_image_processing/rotation/rotation.py	F	get_rotation	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/divide_and_conquer/closest_pair_of_points.py	F	closest_pair_of_points_sqr	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/divide_and_conquer/closest_pair_of_points.py	F	dis_between_closest_pair	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/divide_and_conquer/closest_pair_of_points.py	F	dis_between_closest_in_strip	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/divide_and_conquer/closest_pair_of_points.py	F	euclidean_distance_sqr	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/divide_and_conquer/closest_pair_of_points.py	F	column_based_sort	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/divide_and_conquer/closest_pair_of_points.py	F	closest_pair_of_points	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/divide_and_conquer/convex_hull.py	F	convex_hull_bf	C	12
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/divide_and_conquer/convex_hull.py	F	convex_hull_melkman	B	10
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/divide_and_conquer/convex_hull.py	F	_construct_hull	B	6
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/divide_and_conquer/convex_hull.py	F	_construct_points	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/divide_and_conquer/convex_hull.py	F	convex_hull_recursive	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/divide_and_conquer/convex_hull.py	F	_validate_input	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/divide_and_conquer/convex_hull.py	F	main	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/divide_and_conquer/convex_hull.py	M	Point.__gt__	A	3

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/divide\_and\_conquer/convex\_hull.py	M	Point.__ge__	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/divide\_and\_conquer/convex\_hull.py	M	Point.__le__	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/divide\_and\_conquer/convex\_hull.py	C	Point	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/divide\_and\_conquer/convex\_hull.py	M	Point.__eq__	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/divide\_and\_conquer/convex\_hull.py	F	_det	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/divide\_and\_conquer/convex\_hull.py	M	Point.__init__	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/divide\_and\_conquer/convex\_hull.py	M	Point.__ne__	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/divide\_and\_conquer/convex\_hull.py	M	Point.__lt__	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/divide\_and\_conquer/convex\_hull.py	M	Point.__repr__	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/divide\_and\_conquer/convex\_hull.py	M	Point.__hash__	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/divide\_and\_conquer/heaps\_algorithm.py	F	heaps	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/divide\_and\_conquer/heaps\_algorithm\_iterative.py	F	heaps	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/divide\_and\_conquer/inversions.py	F	_count_cross_inversions	A	5
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/divide\_and\_conquer/inversions.py	F	count_inversions_bf	A	4
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/divide\_and\_conquer/inversions.py	F	main	A	4
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/divide\_and\_conquer/inversions.py	F	count_inversions_recursive	A	2

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/divide\_and\_conquer/kth\_order\_statistic.py	F	kth_number	B	7
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/divide\_and\_conquer/kth\_order\_statistic.py	F	random_pivot	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/divide\_and\_conquer/max\_difference\_pair.py	F	max_difference	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/divide\_and\_conquer/max\_subarray.py	F	max_subarray	B	7
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/divide\_and\_conquer/max\_subarray.py	F	max_cross_sum	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/divide\_and\_conquer/max\_subarray.py	F	plot_runtimes	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/divide\_and\_conquer/max\_subarray.py	F	time_max_subarray	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/divide\_and\_conquer/mergesort.py	F	merge	B	6
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/divide\_and\_conquer/mergesort.py	F	merge_sort	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/divide\_and\_conquer/peak.py	F	peak	B	6
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/divide\_and\_conquer/power.py	F	actual_power	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/divide\_and\_conquer/power.py	F	power	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/divide\_and\_conquer/strassen\_matrix\_multiplication.py	F	strassen	C	12
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/divide\_and\_conquer/strassen\_matrix\_multiplication.py	F	split_matrix	C	11
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/divide\_and\_conquer/strassen\_matrix\_multiplication.py	F	default_matrix_multiplication	A	5

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/divide\_and\_conquer/strassen\_matrix\_multiplication.py	F	actual_strassen	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/divide\_and\_conquer/strassen\_matrix\_multiplication.py	F	matrix_addition	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/divide\_and\_conquer/strassen\_matrix\_multiplication.py	F	matrix_subtraction	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/divide\_and\_conquer/strassen\_matrix\_multiplication.py	F	print_matrix	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/divide\_and\_conquer/strassen\_matrix\_multiplication.py	F	matrix_dimensions	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/dynamic\_programming/abbreviation.py	F	abbr	B	9
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/dynamic\_programming/all\_construct.py	F	all_construct	B	9
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/dynamic\_programming/bitmask.py	M	AssignmentUsingBitmask.count_ways_until7		
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/dynamic\_programming/bitmask.py	C	AssignmentUsingBitmask	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/dynamic\_programming/bitmask.py	M	AssignmentUsingBitmask.__init__		3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/dynamic\_programming/bitmask.py	M	AssignmentUsingBitmask.count_no_of_ways3		
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/dynamic\_programming/catalan\_numbers.py	F	catalan_numbers	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/dynamic\_programming/climbing\_stairs.py	F	climb_stairs	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/dynamic\_programming/combinatoin\_sum\_iv.py	F	combination_sum_iv_bottom_up	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/dynamic\_programming/combinatoin\_sum\_iv.py	F	combination_sum_iv	A	1

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/dynamic/_programming/combination/_sum/_iv.py	F	combination_sum_iv_dp_array	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/dynamic/_programming/edit/_distance.py	M	EditDistance.min_dist_bottom_dp		8
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/dynamic/_programming/edit/_distance.py	C	EditDistance	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/dynamic/_programming/edit/_distance.py	M	EditDistance.__min_dist_top_down_dp		5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/dynamic/_programming/edit/_distance.py	M	EditDistance.min_dist_top_down		3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/dynamic/_programming/edit/_distance.py	M	EditDistance.__init__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/dynamic/_programming/factorial.py	F	factorial	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/dynamic/_programming/fast/_fibonacci.py	F	_fib	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/dynamic/_programming/fast/_fibonacci.py	F	fibonacci	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/dynamic/_programming/fibonacci.py	F	main	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/dynamic/_programming/fibonacci.py	C	Fibonacci	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/dynamic/_programming/fibonacci.py	M	Fibonacci.get	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/dynamic/_programming/fibonacci.py	M	Fibonacci.__init__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/dynamic/_programming/fizz/_buzz.py	F	fizz_buzz	B	9
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/dynamic/_programming/floyd/_warshall.py	M	Graph.__init__	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/dynamic/_programming/floyd/_warshall.py	C	Graph	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/dynamic/_programming/floyd/_warshall.py	M	Graph.floyd_warshall	A	4

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/dynamic\_programming/floyd\_warshall.py	M	Graph.add_edge	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/dynamic\_programming/floyd\_warshall.py	M	Graph.show_min	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/dynamic\_programming/integer\_partition.py	F	partition	B	7
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/dynamic\_programming/iterating\_through\_submasks.py	F	list_of_submasks	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/dynamic\_programming/knapsack.py	F	knapsack_with_example_solution	B	6
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/dynamic\_programming/knapsack.py	F	knapsack	A	5
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/dynamic\_programming/knapsack.py	F	_construct_solution	A	4
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/dynamic\_programming/knapsack.py	F	mf_knapsack	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/dynamic\_programming/k\_means\_clustering\_tensorflow.py	F	tf_k_means_cluster	C	12
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/dynamic\_programming/largest\_divisible\_subset.py	F	largest_divisible_subset	B	10
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/dynamic\_programming/longest\_common\_subsequence.py	F	longest_common_subsequence	C	13
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/dynamic\_programming/longest\_common\_substring.py	F	longest_common_substring	B	10
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/dynamic\_programming/longest\_increasing\_subsequence.py	F	longest_subsequence	B	9
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/dynamic\_programming/longest\_increasing\_subsequence\_iterative.py	F	longest_subsequence	B	8

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/dynamic_programming/longest_increasing_subsequence/_o/_nlogn.py	F	longest_increasing_subsequence	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/dynamic_programming/longest_increasing_subsequence/_o/_nlogn.py	F	ceil_index	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/dynamic_programming/longest_palindromic_subsequence.py	F	longest_palindromic_subsequence	B	7
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/dynamic_programming/matrix_chain_multiplication.py	F	matrix_chain_multiply	B	8
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/dynamic_programming/matrix_chain_multiplication.py	F	matrix_chain_order	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/dynamic_programming/matrix_chain_multiplication.py	F	elapsed_time	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/dynamic_programming/matrix_chain_order.py	F	matrix_chain_order	B	9
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/dynamic_programming/matrix_chain_order.py	F	print_optimal_solution	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/dynamic_programming/matrix_chain_order.py	F	main	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/dynamic_programming/max_non_adjacent_sum.py	F	maximum_non_adjacent_sum	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/dynamic_programming/max_product_subarray.py	F	max_product_subarray	B	7
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/dynamic_programming/max_subarray_sum.py	F	max_subarray_sum	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/dynamic_programming/minimum_coin_change.py	F	dp_count	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/dynamic_programming/minimum_cost_path.py	F	minimum_cost_path	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/dynamic_programming/minimum_partition.py	F	find_min	C	11

（续下页）



文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/dynamic/_programming/minimum/_size/_subarray/_sum.py	F	minimum_subarray_sum	C	11
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/dynamic/_programming/minimum/_squares/_to/_represent/_a/_number.py	F	minimum_squares_to_represent_a_number	B	6
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/dynamic/_programming/minimum/_steps/_to/_one.py	F	min_steps_to_one	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/dynamic/_programming/minimum/_tickets/_cost.py	F	mincost_tickets	B	10
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/dynamic/_programming/min/_distance/_up/_bottom.py	F	min_distance_up_bottom	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/dynamic/_programming/optimal/_binary/_search/_tree.py	F	find_optimal_binary_search_tree	B	19
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/dynamic/_programming/optimal/_binary/_search/_tree.py	F	print_binary_search_tree	B	6
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/dynamic/_programming/optimal/_binary/_search/_tree.py	F	main	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/dynamic/_programming/optimal/_binary/_search/_tree.py	C	Node	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/dynamic/_programming/optimal/_binary/_search/_tree.py	M	Node.__init__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/dynamic/_programming/optimal/_binary/_search/_tree.py	M	Node.__str__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/dynamic/_programming/palindrome/_partitioning.py	F	find_minimum_partitions	B	9
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/dynamic/_programming/range/_sum/_query.py	F	prefix_sum	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/dynamic/_programming/regex/_match.py	F	dp_match	B	10

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/dynamic\_programming/regex\_match.py	F	recursive_match	B	8
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/dynamic\_programming/rod\_cutting.py	F	_top_down_cut_rod_recursive	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/dynamic\_programming/rod\_cutting.py	F	bottom_up_cut_rod	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/dynamic\_programming/rod\_cutting.py	F	main	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/dynamic\_programming/rod\_cutting.py	F	naive_cut_rod_recursive	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/dynamic\_programming/rod\_cutting.py	F	_enforce_args	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/dynamic\_programming/rod\_cutting.py	F	top_down_cut_rod	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/dynamic\_programming/smith\_waterman.py	F	traceback	B	10
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/dynamic\_programming/smith\_waterman.py	F	smith_waterman	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/dynamic\_programming/smith\_waterman.py	F	score_function	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/dynamic\_programming/subset\_generation.py	F	subset_combinations	B	7
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/dynamic\_programming/sum\_of\_subset.py	F	is_sum_subset	B	9
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/dynamic\_programming/trapped\_water.py	F	trapped_rainwater	B	7
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/dynamic\_programming/tribonacci.py	F	tribonacci	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/dynamic\_programming/viterbi.py	F	viterbi	B	9
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/dynamic\_programming/viterbi.py	F	_validate_dict	B	7
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/dynamic\_programming/viterbi.py	F	_validate_list	A	4

（续下页）



文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/electronics/coulombs\_law.py	F	coulombs\_law	B	7
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/electronics/electrical\_impedance.py	F	electrical\_impedance	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/electronics/electric\_conductivity.py	F	electric\_conductivity	B	7
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/electronics/electric\_power.py	F	electric\_power	B	6
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/electronics/electric\_power.py	C	Result	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/electronics/ic\_555\_timer.py	F	astable\_frequency	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/electronics/ic\_555\_timer.py	F	astable\_duty\_cycle	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/electronics/ind\_reactance.py	F	ind\_reactance	B	8
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/electronics/ohms\_law.py	F	ohms\_law	B	6
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/electronics/real\_and\_reactive\_power.py	F	real\_power	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/electronics/real\_and\_reactive\_power.py	F	reactive\_power	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/electronics/resistor\_color\_code.py	F	calculate\_resistance	B	7
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/electronics/resistor\_color\_code.py	F	check\_validity	B	6
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/electronics/resistor\_color\_code.py	F	get\_significant\_digits	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/electronics/resistor\_color\_code.py	F	get\_band\_type\_count	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/electronics/resistor\_color\_code.py	F	get\_multiplier	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/electronics/resistor\_color\_code.py	F	get\_tolerance	A	2

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/electronics/resistor/_color/_code.py	F	get_temperature_coefficient	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/electronics/resistor/_equivalence.py	F	resistor_parallel	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/electronics/resistor/_equivalence.py	F	resistor_series	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/electronics/resonant/_frequency.py	F	resonant_frequency	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/electronics/wheatstone/_bridge.py	F	wheatstone_solver	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/file/_transfer/receive/_file.py	F	main	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/file/_transfer/send/_file.py	F	send_file	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/file/_transfer/tests/test/_send/_file.py	F	test_send_file_running_as_expected		1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/financial/equated/_monthly/_installments.py	F	equated_monthly_installments	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/financial/exponential/_moving/_average.py	F	exponential_moving_average	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/financial/interest.py	F	simple_interest	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/financial/interest.py	F	compound_interest	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/financial/interest.py	F	apr_interest	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/financial/present/_value.py	F	present_value	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/financial/price/_plus/_tax.py	F	price_plus_tax	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/financial/simple/_moving/_average.py	F	simple_moving_average	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/financial/straight/_line/_depreciation.py	F	straight_line_depreciation	B	9

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/financial/time\_and\_half\_pay.py	F	pay	A	4
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/fractals/julia\_sets.py	F	iterate_function	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/fractals/julia\_sets.py	F	eval_exponential	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/fractals/julia\_sets.py	F	eval_quadratic_polynomial	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/fractals/julia\_sets.py	F	prepare_grid	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/fractals/julia\_sets.py	F	show_results	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/fractals/julia\_sets.py	F	ignore_overflow_warnings	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/fractals/koch\_snowflake.py	F	iterate	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/fractals/koch\_snowflake.py	F	iteration_step	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/fractals/koch\_snowflake.py	F	rotate	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/fractals/koch\_snowflake.py	F	plot	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/fractals/mandelbrot.py	F	get_image	A	4
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/fractals/mandelbrot.py	F	get_distance	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/fractals/mandelbrot.py	F	get_color_coded_rgb	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/fractals/mandelbrot.py	F	get_black_and_white_rgb	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/fractals/sierpinski\_triangle.py	F	triangle	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/fractals/sierpinski\_triangle.py	F	get_mid	A	1

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/fractals/vicsek.py	F	draw_cross	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/fractals/vicsek.py	F	draw_fractal_recursive	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/fractals/vicsek.py	F	set_color	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/fractals/vicsek.py	F	draw_vicsek_fractal	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/fractals/vicsek.py	F	main	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/fuzzy/_logic/fuzzy_operations.py	M	FuzzySet.membership	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/fuzzy/_logic/fuzzy_operations.py	C	FuzzySet	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/fuzzy/_logic/fuzzy_operations.py	M	FuzzySet.plot	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/fuzzy/_logic/fuzzy_operations.py	M	FuzzySet.__str__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/fuzzy/_logic/fuzzy_operations.py	M	FuzzySet.complement	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/fuzzy/_logic/fuzzy_operations.py	M	FuzzySet.intersection	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/fuzzy/_logic/fuzzy_operations.py	M	FuzzySet.union	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/genetic/_algorithm/basic/_string.py	F	basic	C	15
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/genetic/_algorithm/basic/_string.py	F	evaluate	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/genetic/_algorithm/basic/_string.py	F	select	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/genetic/_algorithm/basic/_string.py	F	mutate	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/genetic/_algorithm/basic/_string.py	F	crossover	A	1

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/geodesy/haversine/_distance.py	F	haversine_distance	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/geodesy/lamberts/_ellipsoidal/_distance.py	F	lamberts_ellipsoidal_distance	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/geometry/geometry.py	C	Side	B	6
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/geometry/geometry.py	M	Side.__post_init__	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/geometry/geometry.py	C	Angle	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/geometry/geometry.py	M	Angle.__post_init__	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/geometry/geometry.py	M	Circle.max_parts	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/geometry/geometry.py	C	Ellipse	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/geometry/geometry.py	C	Circle	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/geometry/geometry.py	C	Polygon	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/geometry/geometry.py	C	Rectangle	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/geometry/geometry.py	C	Square	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/geometry/geometry.py	M	Ellipse.area	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/geometry/geometry.py	M	Ellipse.perimeter	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/geometry/geometry.py	M	Circle.__init__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/geometry/geometry.py	M	Circle.__repr__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/geometry/geometry.py	M	Circle.diameter	A	1

（续下页）



文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/geometry/geometry.py	M	Polygon.add_side	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/geometry/geometry.py	M	Polygon.get_side	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/geometry/geometry.py	M	Polygon.set_side	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/geometry/geometry.py	M	Rectangle.__init__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/geometry/geometry.py	M	Rectangle.post_init	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/geometry/geometry.py	M	Rectangle.perimeter	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/geometry/geometry.py	M	Rectangle.area	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/geometry/geometry.py	M	Square.__init__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/geometry/geometry.py	M	Square.perimeter	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/geometry/geometry.py	M	Square.area	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphics/bezier/_curve.py	C	BezierCurve	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphics/bezier/_curve.py	M	BezierCurve.basis_function	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphics/bezier/_curve.py	M	BezierCurve.plot_curve	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphics/bezier/_curve.py	M	BezierCurve.bezier_curve_function		3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphics/bezier/_curve.py	M	BezierCurve.__init__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphics/butterfly/_pattern.py	F	butterfly_pattern	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphics/digital_differential_analyzer/_line.py	F	digital_differential_analyzer_line		2

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphics/vector3_for_2d_rendering.py	F	rotate	B	7
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphics/vector3_for_2d_rendering.py	F	convert_to_2d	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/ant_colony_optimization_algorithms.py	F	pheromone_update	B	7
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/ant_colony_optimization_algorithms.py	F	main	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/ant_colony_optimization_algorithms.py	F	city_select	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/ant_colony_optimization_algorithms.py	F	distance	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/articulation_points.py	F	compute_ap	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/a_star.py	F	search	C	20
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/basic_graphs.py	F	dijk	C	11
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/basic_graphs.py	F	topo	B	10
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/basic_graphs.py	F	prim	B	9
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/basic_graphs.py	F	krusk	B	9
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/basic_graphs.py	F	floy	B	6
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/basic_graphs.py	F	dfs	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/basic_graphs.py	F	initialize_unweighted_directed_graph	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/basic_graphs.py	F	initialize_unweighted_undirected_graph	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/basic_graphs.py	F	initialize_weighted_undirected_graph	A	4

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/basic/_graphs.py	F	bfs	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/basic/_graphs.py	F	find_isolated_nodes	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/basic/_graphs.py	F	adjm	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/basic/_graphs.py	F	edglist	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/basic/_graphs.py	F	_input	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/bellman/_ford.py	F	bellman_ford	B	7
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/bellman/_ford.py	F	check_negative_cycle	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/bellman/_ford.py	F	print_distance	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/bidirectional/_a/_star.py	M	BidirectionalAStar.search	B	9
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/bidirectional/_a/_star.py	M	AStar.search	B	7
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/bidirectional/_a/_star.py	C	AStar	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/bidirectional/_a/_star.py	M	AStar.get_successors	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/bidirectional/_a/_star.py	C	BidirectionalAStar	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/bidirectional/_a/_star.py	C	Node	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/bidirectional/_a/_star.py	M	Node.calculate_heuristic	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/bidirectional/_a/_star.py	M	AStar.retrace_path	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/bidirectional/_a/_star.py	M	Node.__init__	A	1

（续下页）

文件	类型	符号 (函数/方法)	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/bidirectional/_a/_star.py	M	Node.__lt__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/bidirectional/_a/_star.py	M	AStar.__init__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/bidirectional/_a/_star.py	M	BidirectionalAStar.__init__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/bidirectional/_a/_star.py	M	BidirectionalAStar.retrace_bidirectional_path		
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/bidirectional/_breadth/_first/_search.py	M	BidirectionalBreadthFirstSearch.search		7
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/bidirectional/_breadth/_first/_search.py	M	BreadthFirstSearch.search	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/bidirectional/_breadth/_first/_search.py	M	BreadthFirstSearch.get_successors		5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/bidirectional/_breadth/_first/_search.py	C	BreadthFirstSearch	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/bidirectional/_breadth/_first/_search.py	C	BidirectionalBreadthFirstSearch		4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/bidirectional/_breadth/_first/_search.py	C	Node	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/bidirectional/_breadth/_first/_search.py	M	BreadthFirstSearch.retrace_path		2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/bidirectional/_breadth/_first/_search.py	M	Node.__init__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/bidirectional/_breadth/_first/_search.py	M	BreadthFirstSearch.__init__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/bidirectional/_breadth/_first/_search.py	M	BidirectionalBreadthFirstSearch.__init__		1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/bidirectional/_breadth/_first/_search.py	M	BidirectionalBreadthFirstSearch.retrace_bidirectional_path		
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/bidirectional/_search.py	F	bidirectional_search	B	9
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/bidirectional/_search.py	F	expand_search	A	5

(续下页)

文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/bidirectional_search.py	F	construct_path	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/bidirectional_search.py	F	main	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/bi_directional_dijkstra.py	F	pass_and_relaxation	B	6
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/bi_directional_dijkstra.py	F	bidirectional_dij	B	6
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/boruvka.py	M	Graph.boruvka	C	11
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/boruvka.py	C	Graph	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/boruvka.py	M	Graph.set_component	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/boruvka.py	M	Graph.union	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/boruvka.py	M	Graph.find_component	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/boruvka.py	F	test_vector	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/boruvka.py	M	Graph.__init__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/boruvka.py	M	Graph.add_edge	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/breadth_first_search.py	M	Graph.bfs	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/breadth_first_search.py	C	Graph	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/breadth_first_search.py	M	Graph.print_graph	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/breadth_first_search.py	M	Graph.add_edge	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/breadth_first_search.py	M	Graph.__init__	A	1

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/breadth\_first\_search\_2.py	F	breadth_first_search	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/breadth\_first\_search\_2.py	F	breadth_first_search_with_deque	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/breadth\_first\_search\_2.py	F	benchmark_function	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/breadth\_first\_search\_shortest\_path.py	C	Graph	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/breadth\_first\_search\_shortest\_path.py	M	Graph.breath_first_search	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/breadth\_first\_search\_shortest\_path.py	M	Graph.shortest_path	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/breadth\_first\_search\_shortest\_path.py	M	Graph.__init__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/breadth\_first\_search\_shortest\_path\_2.py	F	bfs_shortest_path_distance	B	10
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/breadth\_first\_search\_shortest\_path\_2.py	F	bfs_shortest_path	B	6
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/breadth\_first\_search\_zero\_one\_shortest\_path.py	M	AdjacencyList.get_shortest_path	A	8
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/breadth\_first\_search\_zero\_one\_shortest\_path.py	C	AdjacencyList	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/breadth\_first\_search\_zero\_one\_shortest\_path.py	M	AdjacencyList.add_edge	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/breadth\_first\_search\_zero\_one\_shortest\_path.py	M	AdjacencyList.__init__	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/breadth\_first\_search\_zero\_one\_shortest\_path.py	C	Edge	A	1

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/breadth/_first/_search/_zero/_one/_shortest/_path.py	M	AdjacencyList.__getitem__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/breadth/_first/_search/_zero/_one/_shortest/_path.py	M	AdjacencyList.size	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/check/_bipartite.py	F	is_bipartite_bfs	B	8
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/check/_bipartite.py	F	is_bipartite_dfs	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/check/_cycle.py	F	depth_first_search	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/check/_cycle.py	F	check_cycle	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/connected/_components.py	F	dfs	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/connected/_components.py	F	connected_components	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/deep/_clone/_graph.py	F	clone_graph	B	9
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/deep/_clone/_graph.py	C	Node	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/deep/_clone/_graph.py	M	Node.__post_init__	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/deep/_clone/_graph.py	M	Node.__hash__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/depth/_first/_search.py	F	depth_first_search	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/depth/_first/_search/_2.py	C	Graph	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/depth/_first/_search/_2.py	M	Graph.print_graph	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/depth/_first/_search/_2.py	M	Graph.dfs	A	3

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/depth\_first\_search\_2.py	M	Graph.dfs_recursive	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/depth\_first\_search\_2.py	M	Graph.add_edge	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/depth\_first\_search\_2.py	M	Graph.__init__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/dijkstra.py	F	dijkstra	B	6
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/dijkstra\_2.py	F	dijkstra	B	8
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/dijkstra\_2.py	F	min_dist	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/dijkstra\_2.py	F	print_dist	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/dijkstra\_algorithm.py	M	Graph.dijkstra	B	7
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/dijkstra\_algorithm.py	M	Graph.show_path	B	7
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/dijkstra\_algorithm.py	M	PriorityQueue.min_heapify	B	6
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/dijkstra\_algorithm.py	C	Graph	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/dijkstra\_algorithm.py	M	PriorityQueue.decrease_key	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/dijkstra\_algorithm.py	M	Graph.add_edge	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/dijkstra\_algorithm.py	M	Graph.show_graph	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/dijkstra\_algorithm.py	C	PriorityQueue	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/dijkstra\_algorithm.py	M	Graph.show_distances	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/dijkstra\_algorithm.py	M	PriorityQueue.__init__	A	1

（续下页）



文件	类型	符号（函数/方法）	等级	分数
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/graphs/dijkstra\_algorithm.py	M	PriorityQueue.is_empty	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/graphs/dijkstra\_algorithm.py	M	PriorityQueue.insert	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/graphs/dijkstra\_algorithm.py	M	PriorityQueue.extract_min	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/graphs/dijkstra\_algorithm.py	M	PriorityQueue.left	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/graphs/dijkstra\_algorithm.py	M	PriorityQueue.right	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/graphs/dijkstra\_algorithm.py	M	PriorityQueue.par	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/graphs/dijkstra\_algorithm.py	M	PriorityQueue.swap	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/graphs/dijkstra\_algorithm.py	M	Graph.__init__	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/graphs/dijkstra\_alternate.py	M	Graph.dijkstra	B	6
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/graphs/dijkstra\_alternate.py	C	Graph	A	4
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/graphs/dijkstra\_alternate.py	M	Graph.minimum_distance	A	4
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/graphs/dijkstra\_alternate.py	M	Graph.__init__	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/graphs/dijkstra\_alternate.py	M	Graph.print_solution	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/graphs/dijkstra\_binary\_grid.py	F	dijkstra	C	11
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/graphs/dinic.py	M	Dinic.max_flow	B	10
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/graphs/dinic.py	C	Dinic	B	6
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/graphs/dinic.py	M	Dinic.depth_first_search	B	6
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/graphs/dinic.py	M	Dinic.__init__	A	2

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/dinic.py	M	Dinic.add_edge	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/directed_and_undirected_weighted_graph.py	M	DirectedGraph.cycle_nodes	C	14
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/directed_and_undirected_weighted_graph.py	M	DirectedGraph.has_cycle	C	14
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/directed_and_undirected_weighted_graph.py	M	Graph.cycle_nodes	C	14
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/directed_and_undirected_weighted_graph.py	M	Graph.has_cycle	C	14
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/directed_and_undirected_weighted_graph.py	M	DirectedGraph.dfs	C	11
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/directed_and_undirected_weighted_graph.py	M	Graph.dfs	C	11
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/directed_and_undirected_weighted_graph.py	M	DirectedGraph.topological_sort	B	9
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/directed_and_undirected_weighted_graph.py	M	Graph.remove_pair	B	7
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/directed_and_undirected_weighted_graph.py	C	DirectedGraph	B	6
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/directed_and_undirected_weighted_graph.py	M	DirectedGraph.bfs	B	6
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/directed_and_undirected_weighted_graph.py	C	Graph	B	6
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/directed_and_undirected_weighted_graph.py	M	Graph.bfs	B	6

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/directed\_and\_undirected\_weighted\_graph.py	M	DirectedGraph.fill_graph_randomly	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/directed\_and\_undirected\_weighted\_graph.py	M	Graph.add_pair	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/directed\_and\_undirected\_weighted\_graph.py	M	Graph.fill_graph_randomly	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/directed\_and\_undirected\_weighted\_graph.py	M	DirectedGraph.add_pair	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/directed\_and\_undirected\_weighted\_graph.py	M	DirectedGraph.remove_pair	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/directed\_and\_undirected\_weighted\_graph.py	M	DirectedGraph.in_degree	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/directed\_and\_undirected\_weighted\_graph.py	M	DirectedGraph.__init__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/directed\_and\_undirected\_weighted\_graph.py	M	DirectedGraph.all_nodes	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/directed\_and\_undirected\_weighted\_graph.py	M	DirectedGraph.out_degree	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/directed\_and\_undirected\_weighted\_graph.py	M	DirectedGraph.dfs_time	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/directed\_and\_undirected\_weighted\_graph.py	M	DirectedGraph.bfs_time	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/directed\_and\_undirected\_weighted\_graph.py	M	Graph.__init__	A	1

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/directed_and_undirected_weighted_graph.py	M	Graph.degree	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/directed_and_undirected_weighted_graph.py	M	Graph.all_nodes	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/directed_and_undirected_weighted_graph.py	M	Graph.dfs_time	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/directed_and_undirected_weighted_graph.py	M	Graph.bfs_time	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/edmonds_karp_multiple_source_and_sink.py	M	FlowNetwork._normalize_graph	C	12
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/edmonds_karp_multiple_source_and_sink.py	M	PushRelabelExecutor._algorithm	B	6
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/edmonds_karp_multiple_source_and_sink.py	M	PushRelabelExecutor.relabel	B	6
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/edmonds_karp_multiple_source_and_sink.py	C	FlowNetwork	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/edmonds_karp_multiple_source_and_sink.py	C	PushRelabelExecutor	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/edmonds_karp_multiple_source_and_sink.py	M	PushRelabelExecutor.process_vertex	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/edmonds_karp_multiple_source_and_sink.py	M	FlowNetwork.find_maximum_flow	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/edmonds_karp_multiple_source_and_sink.py	C	MaximumFlowAlgorithmExecutor	A	3

（续下页）

文件	类型	符号 (函数/方法)	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/edmonds\_karp\_multiple\_source\_and\_sink.py	C	FlowNetworkAlgorithmExecutor	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/edmonds\_karp\_multiple\_source\_and\_sink.py	M	FlowNetworkAlgorithmExecutor.execute	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/edmonds\_karp\_multiple\_source\_and\_sink.py	M	MaximumFlowAlgorithmExecutor.get_maximum_flow	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/edmonds\_karp\_multiple\_source\_and\_sink.py	M	PushRelabelExecutor.__init__	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/edmonds\_karp\_multiple\_source\_and\_sink.py	M	FlowNetwork.__init__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/edmonds\_karp\_multiple\_source\_and\_sink.py	M	FlowNetwork.set_maximum_flow_algorithm	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/edmonds\_karp\_multiple\_source\_and\_sink.py	M	FlowNetworkAlgorithmExecutor.A_init__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/edmonds\_karp\_multiple\_source\_and\_sink.py	M	FlowNetworkAlgorithmExecutor.A_algorithm	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/edmonds\_karp\_multiple\_source\_and\_sink.py	M	MaximumFlowAlgorithmExecutor.A_init__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/edmonds\_karp\_multiple\_source\_and\_sink.py	M	PushRelabelExecutor.push	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/eulerian\_path\_and\_circuit\_for\_undirected\_graph.py	F	check_circuit_or_path	B	6
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/eulerian\_path\_and\_circuit\_for\_undirected\_graph.py	F	check_euler	B	6

(续下页)

文件	类型	符号（函数/方法）	等级	分数
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/graphs/eulerian\_path\_and\_circuit\_for\_undirected\_graph.py	F	dfs	A	4
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/graphs/eulerian\_path\_and\_circuit\_for\_undirected\_graph.py	F	main	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/graphs/even\_tree.py	F	dfs	A	4
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/graphs/even\_tree.py	F	even_tree	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/graphs/finding\_bridges.py	F	compute_bridges	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/graphs/finding\_bridges.py	F	__get_demo_graph	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/graphs/frequent\_pattern\_graph\_miner.py	F	create_edge	B	7
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/graphs/frequent\_pattern\_graph\_miner.py	F	print_all	A	5
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/graphs/frequent\_pattern\_graph\_miner.py	F	construct_graph	A	5
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/graphs/frequent\_pattern\_graph\_miner.py	F	my_dfs	A	5
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/graphs/frequent\_pattern\_graph\_miner.py	F	get_bitcode	A	4
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/graphs/frequent\_pattern\_graph\_miner.py	F	freq_subgraphs_edge_list	A	4
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/graphs/frequent\_pattern\_graph\_miner.py	F	get_distinct_edge	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/graphs/frequent\_pattern\_graph\_miner.py	F	get_frequency_table	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/graphs/frequent\_pattern\_graph\_miner.py	F	preprocess	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/graphs/frequent\_pattern\_graph\_miner.py	F	get_nodes	A	2

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/graphs/frequent\_pattern\_graph\_miner.py	F	get_cluster	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/graphs/frequent\_pattern\_graph\_miner.py	F	get_support	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/graphs/frequent\_pattern\_graph\_miner.py	F	find_freq_subgraph_given_support		2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/graphs/gale\_shapley\_bigraph.py	F	stable_matching	A	5
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/graphs/graphs\_floyd\_warshall.py	F	floyd_warshall	C	11
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/graphs/graphs\_floyd\_warshall.py	F	_print_dist	A	4
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/graphs/greedy\_best\_first.py	M	GreedyBestFirst.search	B	7
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/graphs/greedy\_best\_first.py	C	GreedyBestFirst	A	5
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/graphs/greedy\_best\_first.py	M	GreedyBestFirst.get_successors	A	5
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/graphs/greedy\_best\_first.py	C	Node	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/graphs/greedy\_best\_first.py	M	GreedyBestFirst.retrace_path	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/graphs/greedy\_best\_first.py	M	Node.__init__	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/graphs/greedy\_best\_first.py	M	Node.calculate_heuristic	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/graphs/greedy\_best\_first.py	M	Node.__lt__	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/graphs/greedy\_best\_first.py	M	Node.__eq__	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/graphs/greedy\_best\_first.py	M	GreedyBestFirst.__init__	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/graphs/greedy\_min\_vertex\_cover.py	F	greedy_min_vertex_cover	B	7

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/g_topological_sort.py	F	depth_first_search	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/g_topological_sort.py	F	topological_sort	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/g_topological_sort.py	F	print_stack	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/kahns_algorithm_long.py	F	longest_distance	B	8
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/kahns_algorithm_topo.py	F	topological_sort	B	9
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/karger.py	F	partition_graph	C	12
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/lanczos_eigenvectors.py	F	validate_adjacency_list	B	8
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/lanczos_eigenvectors.py	F	lanczos_iteration	B	7
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/lanczos_eigenvectors.py	F	multiply_matrix_vector	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/lanczos_eigenvectors.py	F	find_lanczos_eigenvectors	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/lanczos_eigenvectors.py	F	main	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/markov_chain.py	F	get_transitions	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/markov_chain.py	C	MarkovChainGraphUndirectedUnweighted	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/markov_chain.py	M	MarkovChainGraphUndirectedUnweighted.add_transition	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/markov_chain.py	M	MarkovChainGraphUndirectedUnweighted.transition	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/markov_chain.py	M	MarkovChainGraphUndirectedUnweighted.__init__	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/markov_chain.py	M	MarkovChainGraphUndirectedUnweighted.add_node	A	3

（续下页）



文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/markov/_chain.py	M	MarkovChainGraphUndirectedUnweighted.get_nodes		
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/matching/_min/_vertex/_cover.py	F	matching_min_vertex_cover	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/matching/_min/_vertex/_cover.py	F	get_edges	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/minimum/_path/_sum.py	F	min_path_sum	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/minimum/_path/_sum.py	F	fill_row	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/minimum/_spanning/_tree/_boruvka.py	M	Graph.boruvka_mst	C	13
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/minimum/_spanning/_tree/_boruvka.py	M	Graph.distinct_weight	B	6
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/minimum/_spanning/_tree/_boruvka.py	C	Graph	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/minimum/_spanning/_tree/_boruvka.py	M	Graph.build	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/minimum/_spanning/_tree/_boruvka.py	M	Graph.__str__	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/minimum/_spanning/_tree/_boruvka.py	M	Graph.get_edges	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/minimum/_spanning/_tree/_boruvka.py	M	Graph.add_vertex	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/minimum/_spanning/_tree/_boruvka.py	M	Graph.add_edge	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/minimum/_spanning/_tree/_boruvka.py	M	Graph.__init__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/minimum/_spanning/_tree/_boruvka.py	M	Graph.get_vertices	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/minimum/_spanning/_tree/_kruskal.py	F	kruskal	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/minimum/_spanning/_tree/_prims.py	F	prims_algorithm	B	8

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/minimum/_spanning/_tree/_prims.py	M	Heap.top_to_bottom	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/minimum/_spanning/_tree/_prims.py	M	Heap.bottom_to_top	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/minimum/_spanning/_tree/_prims.py	C	Heap	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/minimum/_spanning/_tree/_prims.py	M	Heap.heapify	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/minimum/_spanning/_tree/_prims.py	M	Heap.__init__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/minimum/_spanning/_tree/_prims.py	M	Heap.get_position	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/minimum/_spanning/_tree/_prims.py	M	Heap.set_position	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/minimum/_spanning/_tree/_prims.py	M	Heap.delete_minimum	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/multi/_heuristic/_astar.py	F	multi_a_star	C	15
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/multi/_heuristic/_astar.py	F	expand_state	C	12
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/multi/_heuristic/_astar.py	F	do_something	C	11
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/multi/_heuristic/_astar.py	F	make_common_ground	B	10
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/multi/_heuristic/_astar.py	F	valid	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/multi/_heuristic/_astar.py	M	PriorityQueue.put	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/multi/_heuristic/_astar.py	M	PriorityQueue.remove_element	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/multi/_heuristic/_astar.py	C	PriorityQueue	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/multi/_heuristic/_astar.py	M	PriorityQueue.minkey	A	2

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/multi_heuristic_astar.py	F	consistent_heuristic	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/multi_heuristic_astar.py	F	heuristic_2	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/multi_heuristic_astar.py	F	heuristic_1	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/multi_heuristic_astar.py	F	key	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/multi_heuristic_astar.py	M	PriorityQueue.__init__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/multi_heuristic_astar.py	M	PriorityQueue.empty	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/multi_heuristic_astar.py	M	PriorityQueue.top_show	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/multi_heuristic_astar.py	M	PriorityQueue.get	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/page_rank.py	F	page_rank	B	6
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/page_rank.py	F	main	B	6
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/page_rank.py	C	Node	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/page_rank.py	M	Node.__init__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/page_rank.py	M	Node.add_inbound	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/page_rank.py	M	Node.add_outbound	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/page_rank.py	M	Node.__repr__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/prim.py	F	prim	B	7
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/prim.py	F	prim_heap	B	7
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/graphs/prim.py	C	Vertex	A	2

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/graphs/prim.py	F	connect	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/graphs/prim.py	F	test_vector	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/graphs/prim.py	M	Vertex.__init__	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/graphs/prim.py	M	Vertex.__lt__	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/graphs/prim.py	M	Vertex.__repr__	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/graphs/prim.py	M	Vertex.add_neighbor	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/graphs/prim.py	M	Vertex.add_edge	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/graphs/random\_graph\_generator.py	F	random_graph	B	8
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/graphs/random\_graph\_generator.py	F	complete_graph	A	4
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/graphs/scc\_kosaraju.py	F	kosaraju	A	4
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/graphs/scc\_kosaraju.py	F	dfs	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/graphs/scc\_kosaraju.py	F	dfs2	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/graphs/strongly\_connected\_components.py	F	strongly_connected_components	B	8
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/graphs/strongly\_connected\_components.py	F	topology_sort	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/graphs/strongly\_connected\_components.py	F	find_components	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/graphs/tarjans\_scc.py	F	tarjan	A	5
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/graphs/tarjans\_scc.py	F	create_graph	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/graphs/tests/test\_min\_spanning\_tree\_kruskal.py	F	test_kruskal_successful_result	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/graphs/tests/test\_min\_spanning\_tree\_prim.py	F	test_prim_successful_result	A	4

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/greedy\_methods/best\_time\_to\_buy\_and\_sell\_stock.py	F	max_profit	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/greedy\_methods/fractional\_cover\_problem.py	F	fractional_cover	A	4
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/greedy\_methods/fractional\_cover\_problem.py	C	Item	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/greedy\_methods/fractional\_cover\_problem.py	M	Item.ratio	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/greedy\_methods/fractional\_knapsack.py	F	frac_knapsack	A	5
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/greedy\_methods/fractional\_knapsack\_2.py	F	fractional_knapsack	A	4
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/greedy\_methods/gas\_station.py	F	can_complete_journey	B	6
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/greedy\_methods/gas\_station.py	F	get_gas_stations	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/greedy\_methods/gas\_station.py	C	GasStation	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/greedy\_methods/minimum\_coin\_change.py	F	find_minimum_change	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/greedy\_methods/minimum\_waiting\_time.py	F	minimum_waiting_time	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/greedy\_methods/optimal\_merge\_pattern.py	F	optimal_merge_pattern	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/greedy\_methods/smallest\_range.py	F	smallest_range	A	5
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/ hashes/adler32.py	F	adler32	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/ hashes/chaos\_machine.py	F	push	A	4
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/ hashes/chaos\_machine.py	F	pull	A	2

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/hashes/chaos\_machine.py	F	reset	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/hashes/djb2.py	F	djb2	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/hashes/elf.py	F	elf_hash	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/hashes/enigma\_machine.py	F	rotator	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/hashes/enigma\_machine.py	F	engine	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/hashes/fletcher16.py	F	fletcher16	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/hashes/hamming\_code.py	F	receptor_converter	C	18
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/hashes/hamming\_code.py	F	emitter_converter	C	15
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/hashes/hamming\_code.py	F	text_from_bits	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/hashes/hamming\_code.py	F	text_to_bits	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/hashes/luhn.py	F	is_luhn	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/hashes/md5.py	F	md5_me	B	7
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/hashes/md5.py	F	get_block_words	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/hashes/md5.py	F	not_32	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/hashes/md5.py	F	to_little_endian	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/hashes/md5.py	F	reformat_hex	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/hashes/md5.py	F	preprocess	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/hashes/md5.py	F	left_rotate_32	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/hashes/md5.py	F	sum_32	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/hashes/sdbm.py	F	sdbm	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/hashes/sha1.py	M	SHA1Hash.final_hash	B	7

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/hashe	C	SHA1Hash	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/hashe	F	test_sha1_hash	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/hashe	F	main	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/hashe	M	SHA1Hash.split_blocks	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/hashe	M	SHA1Hash.expand_block	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/hashe	M	SHA1Hash.__init__	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/hashe	M	SHA1Hash.rotate	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/hashe	M	SHA1Hash.padding	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/hashe	M	SHA256.final_hash	B	7
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/hashe	C	SHA256	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/hashe	C	SHA256HashTest	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/hashe	F	main	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/hashe	M	SHA256HashTest.test_match_hashes	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/hashe	M	SHA256.__init__	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/hashe	M	SHA256.preprocessing	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/hashe	M	SHA256.ror	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/knapsack/greedy\_knapsack.py	F	calc_profit	C	11
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/knapsack/knapsack.py	F	knapsack	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/knapsack/recursive\_approach\_knapsack.py	F	knapsack	A	3

（续下页）

文件	类型	符号 (函数/方法)	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_/_Python/knapsack/tests/test_greedy_knapsack.py	C	TestClass	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_/_Python/knapsack/tests/test_greedy_knapsack.py	M	TestClass.test_sorted	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_/_Python/knapsack/tests/test_greedy_knapsack.py	M	TestClass.test_negative_max_weight	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_/_Python/knapsack/tests/test_greedy_knapsack.py	M	TestClass.test_negative_profit_value	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_/_Python/knapsack/tests/test_greedy_knapsack.py	M	TestClass.test_negative_weight_value	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_/_Python/knapsack/tests/test_greedy_knapsack.py	M	TestClass.test_null_max_weight	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_/_Python/knapsack/tests/test_greedy_knapsack.py	M	TestClass.test_unequal_list_length	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_/_Python/knapsack/tests/test_knapsack.py	C	Test	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_/_Python/knapsack/tests/test_knapsack.py	M	Test.test_base_case	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_/_Python/knapsack/tests/test_knapsack.py	M	Test.test_easy_case	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_/_Python/knapsack/tests/test_knapsack.py	M	Test.test_knapsack	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_/_Python/knapsack/tests/test_knapsack.py	M	Test.test_knapsack_repetition	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_/_Python/linear_algebra/gaussian_elimination.py	F	gaussian_elimination	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_/_Python/linear_algebra/gaussian_elimination.py	F	retroactive_resolution	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_/_Python/linear_algebra/jacobi_iteration_method.py	F	jacobi_iteration_method	B	7
D:/code/_assistant/Git/_repo/TheAlgorithms/_/_Python/linear_algebra/jacobi_iteration_method.py	F	strictly_diagonally_dominant	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_/_Python/linear_algebra/lu_decomposition.py	F	lower_upper_decomposition	B	6

(续下页)



文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/linear/_algebra/matrix/_inversion.py	F	invert_matrix	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/linear/_algebra/src/conjugate/_gradient.py	F	conjugate_gradient	B	6
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/linear/_algebra/src/conjugate/_gradient.py	F	_is_matrix_spd	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/linear/_algebra/src/conjugate/_gradient.py	F	test_conjugate_gradient	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/linear/_algebra/src/conjugate/_gradient.py	F	_create_spd_matrix	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/linear/_algebra/src/gaussian/_elimination/_pivoting.py	F	solve_linear_system	B	10
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/linear/_algebra/src/lib.py	M	Matrix.__mul__	B	8
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/linear/_algebra/src/lib.py	M	Vector.__mul__	B	6
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/linear/_algebra/src/lib.py	M	Matrix.determinant	B	6
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/linear/_algebra/src/lib.py	M	Matrix.__add__	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/linear/_algebra/src/lib.py	M	Matrix.__sub__	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/linear/_algebra/src/lib.py	F	axpy	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/linear/_algebra/src/lib.py	M	Vector.__eq__	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/linear/_algebra/src/lib.py	C	Matrix	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/linear/_algebra/src/lib.py	M	Matrix.__str__	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/linear/_algebra/src/lib.py	M	Matrix.cofactor	A	4

（续下页）

文件	类型	符号 (函数/方法)	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_/_Python/linear/_algebra/src/lib.py	F	unit_basis_vector	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_/_Python/linear/_algebra/src/lib.py	F	random_matrix	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_/_Python/linear/_algebra/src/lib.py	C	Vector	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_/_Python/linear/_algebra/src/lib.py	M	Vector.__add__	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_/_Python/linear/_algebra/src/lib.py	M	Vector.__sub__	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_/_Python/linear/_algebra/src/lib.py	M	Vector.component	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_/_Python/linear/_algebra/src/lib.py	M	Vector.euclidean_length	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_/_Python/linear/_algebra/src/lib.py	M	Matrix.component	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_/_Python/linear/_algebra/src/lib.py	M	Matrix.change_component	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_/_Python/linear/_algebra/src/lib.py	M	Matrix.minor	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_/_Python/linear/_algebra/src/lib.py	F	zero_vector	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_/_Python/linear/_algebra/src/lib.py	F	random_vector	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_/_Python/linear/_algebra/src/lib.py	F	square_zero_matrix	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_/_Python/linear/_algebra/src/lib.py	M	Vector.__init__	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_/_Python/linear/_algebra/src/lib.py	M	Vector.change_component	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_/_Python/linear/_algebra/src/lib.py	M	Vector.angle	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_/_Python/linear/_algebra/src/lib.py	M	Vector.__len__	A	1

(续下页)

文件	类型	符号 (函数/方法)	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_/_Python/linear/_algebra/src/lib.py	M	Vector.__str__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_/_Python/linear/_algebra/src/lib.py	M	Vector.__mul__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_/_Python/linear/_algebra/src/lib.py	M	Vector.__mul__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_/_Python/linear/_algebra/src/lib.py	M	Vector.copy	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_/_Python/linear/_algebra/src/lib.py	M	Matrix.__init__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_/_Python/linear/_algebra/src/lib.py	M	Matrix.__mul__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_/_Python/linear/_algebra/src/lib.py	M	Matrix.__mul__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_/_Python/linear/_algebra/src/lib.py	M	Matrix.height	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_/_Python/linear/_algebra/src/lib.py	M	Matrix.width	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_/_Python/linear/_algebra/src/polynom_for/_points.py	F	points_to_polynomial	C	20
D:/code/_assistant/Git/_repo/TheAlgorithms/_/_Python/linear/_algebra/src/power/_iteration.py	F	power_iteration	C	11
D:/code/_assistant/Git/_repo/TheAlgorithms/_/_Python/linear/_algebra/src/power/_iteration.py	F	test_power_iteration	B	6
D:/code/_assistant/Git/_repo/TheAlgorithms/_/_Python/linear/_algebra/src/rank/_of/_matrix.py	F	rank_of_matrix	B	9
D:/code/_assistant/Git/_repo/TheAlgorithms/_/_Python/linear/_algebra/src/rayleigh/_quotient.py	F	tests	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_/_Python/linear/_algebra/src/rayleigh/_quotient.py	F	rayleigh_quotient	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_/_Python/linear/_algebra/src/rayleigh/_quotient.py	F	is_hermitian	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_/_Python/linear/_algebra/src/schur/_complement.py	F	schur_complement	A	5

(续下页)

文件	类型	符号 (函数/方法)	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/linear/_algebra/src/schur/_complement.py	C	TestSchurComplement	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/linear/_algebra/src/schur/_complement.py	M	TestSchurComplement.test_schur_complement	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/linear/_algebra/src/schur/_complement.py	M	TestSchurComplement.test_improper_a_b_dimensions	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/linear/_algebra/src/schur/_complement.py	M	TestSchurComplement.test_improper_b_c_dimensions	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/linear/_algebra/src/test/_linear/_algebra.py	M	Test.test_euclidean_length	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/linear/_algebra/src/test/_linear/_algebra.py	M	Test.test_add	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/linear/_algebra/src/test/_linear/_algebra.py	M	Test.test_sub	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/linear/_algebra/src/test/_linear/_algebra.py	M	Test.test_minor	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/linear/_algebra/src/test/_linear/_algebra.py	M	Test.test_cofactor	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/linear/_algebra/src/test/_linear/_algebra.py	C	Test	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/linear/_algebra/src/test/_linear/_algebra.py	M	Test.test_component	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/linear/_algebra/src/test/_linear/_algebra.py	M	Test.test_mul	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/linear/_algebra/src/test/_linear/_algebra.py	M	Test.test__mul__matrix	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/linear/_algebra/src/test/_linear/_algebra.py	M	Test.test_str	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/linear/_algebra/src/test/_linear/_algebra.py	M	Test.test_size	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/linear/_algebra/src/test/_linear/_algebra.py	M	Test.test_zero_vector	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/linear/_algebra/src/test/_linear/_algebra.py	M	Test.test_unit_basis_vector	A	2

(续下页)

文件	类型	符号 (函数/方法)	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/linear_algebra/src/test_linear_algebra.py	M	Test.test_axpy	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/linear_algebra/src/test_linear_algebra.py	M	Test.test_copy	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/linear_algebra/src/test_linear_algebra.py	M	Test.test_change_component	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/linear_algebra/src/test_linear_algebra.py	M	Test.test_str_matrix	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/linear_algebra/src/test_linear_algebra.py	M	Test.test_determinant	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/linear_algebra/src/test_linear_algebra.py	M	Test.test_change_component_matrix	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/linear_algebra/src/test_linear_algebra.py	M	Test.test_component_matrix	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/linear_algebra/src/test_linear_algebra.py	M	Test.test__add__matrix	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/linear_algebra/src/test_linear_algebra.py	M	Test.test__sub__matrix	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/linear_algebra/src/test_linear_algebra.py	M	Test.test_square_zero_matrix	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/linear_algebra/src/transformations_2d.py	F	scaling	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/linear_algebra/src/transformations_2d.py	F	rotation	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/linear_algebra/src/transformations_2d.py	F	projection	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/linear_algebra/src/transformations_2d.py	F	reflection	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/linear_programming/simplex.py	M	Tableau.__init__	B	6
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/linear_programming/simplex.py	C	Tableau	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/linear_programming/simplex.py	M	Tableau.run_simplex	A	4

(续下页)

文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/linear/_programming/simplex.py	M	Tableau.interpret_tableau	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/linear/_programming/simplex.py	M	Tableau.generate_col_titles	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/linear/_programming/simplex.py	M	Tableau.find_pivot	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/linear/_programming/simplex.py	M	Tableau.pivot	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/linear/_programming/simplex.py	M	Tableau.change_stage	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine/_learning/apriori/_algorithm.py	F	apriori	B	10
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine/_learning/apriori/_algorithm.py	F	prune	B	7
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine/_learning/apriori/_algorithm.py	F	load_data	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine/_learning/astar.py	F	astar	C	11
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine/_learning/astar.py	M	Gridworld.get_neighbours	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine/_learning/astar.py	C	Gridworld	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine/_learning/astar.py	C	Cell	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine/_learning/astar.py	M	Cell.__init__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine/_learning/astar.py	M	Cell.__eq__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine/_learning/astar.py	M	Cell.showcell	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine/_learning/astar.py	M	Gridworld.__init__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine/_learning/astar.py	M	Gridworld.show	A	1

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/automatic/_differentiation.py	M	GradientTracker.derivative	C	11
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/automatic/_differentiation.py	M	GradientTracker.gradient	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/automatic/_differentiation.py	C	GradientTracker	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/automatic/_differentiation.py	C	Variable	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/automatic/_differentiation.py	M	Variable.__add__	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/automatic/_differentiation.py	M	Variable.__sub__	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/automatic/_differentiation.py	M	Variable.__mul__	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/automatic/_differentiation.py	M	Variable.__truediv__	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/automatic/_differentiation.py	M	Variable.__matmul__	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/automatic/_differentiation.py	M	Variable.__pow__	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/automatic/_differentiation.py	C	Operation	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/automatic/_differentiation.py	M	Operation.__init__	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/automatic/_differentiation.py	M	Operation.__eq__	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/automatic/_differentiation.py	M	GradientTracker.__new__	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/automatic/_differentiation.py	M	GradientTracker.append	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/automatic/_differentiation.py	C	OpType	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/automatic/_differentiation.py	M	Variable.__init__	A	1

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/automatic_differentiation.py	M	Variable.__repr__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/automatic_differentiation.py	M	Variable.to_ndarray	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/automatic_differentiation.py	M	Variable.add_param_to	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/automatic_differentiation.py	M	Variable.add_result_of	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/automatic_differentiation.py	M	Operation.add_params	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/automatic_differentiation.py	M	Operation.add_output	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/automatic_differentiation.py	M	GradientTracker.__init__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/automatic_differentiation.py	M	GradientTracker.__enter__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/automatic_differentiation.py	M	GradientTracker.__exit__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/data_transformations.py	F	normalization	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/data_transformations.py	F	standardization	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/decision_tree.py	M	DecisionTree.train	C	11
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/decision_tree.py	C	DecisionTree	B	6
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/decision_tree.py	M	DecisionTree.predict	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/decision_tree.py	C	TestDecisionTree	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/decision_tree.py	F	main	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/decision_tree.py	M	DecisionTree.mean_squared_error		2

（续下页）



文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/decision_tree.py	M	TestDecisionTree.helper_mean_squared_error_test		
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/decision_tree.py	M	DecisionTree.__init__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/dimensionality_reduction.py	F	covariance_within_classes	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/dimensionality_reduction.py	F	covariance_between_classes	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/dimensionality_reduction.py	F	linear_discriminant_analysis	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/dimensionality_reduction.py	F	test_linear_discriminant_analysis		3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/dimensionality_reduction.py	F	test_principal_component_analysis		3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/dimensionality_reduction.py	F	principal_component_analysis	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/dimensionality_reduction.py	F	column_reshape	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/frequent_pattern_growth.py	F	create_tree	C	12
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/frequent_pattern_growth.py	F	update_tree	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/frequent_pattern_growth.py	F	mine_tree	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/frequent_pattern_growth.py	F	update_header	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/frequent_pattern_growth.py	F	find_prefix_path	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/frequent_pattern_growth.py	F	ascend_tree	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/frequent_pattern_growth.py	C	TreeNode	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/frequent_pattern_growth.py	M	TreeNode.disp	A	2

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/frequent/_pattern/_growth.py	M	TreeNode.__repr__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/frequent/_pattern/_growth.py	M	TreeNode.inc	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/gradient/_boosting/_classifier.py	C	GradientBoostingClassifier	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/gradient/_boosting/_classifier.py	M	GradientBoostingClassifier.fit	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/gradient/_boosting/_classifier.py	M	GradientBoostingClassifier.predict	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/gradient/_boosting/_classifier.py	M	GradientBoostingClassifier.__init__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/gradient/_boosting/_classifier.py	M	GradientBoostingClassifier.gradient	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/gradient/_descent.py	F	run_gradient_descent	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/gradient/_descent.py	F	output	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/gradient/_descent.py	F	calculate_hypothesis_value	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/gradient/_descent.py	F	summation_of_cost_derivative	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/gradient/_descent.py	F	_hypothesis_value	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/gradient/_descent.py	F	test_gradient_descent	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/gradient/_descent.py	F	_error	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/gradient/_descent.py	F	get_cost_derivative	A	1

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/k/_means/_clust.py	F	kmeans	B	8
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/k/_means/_clust.py	F	compute_heterogeneity	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/k/_means/_clust.py	F	revise_centroids	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/k/_means/_clust.py	F	report_generator	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/k/_means/_clust.py	F	get_initial_centroids	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/k/_means/_clust.py	F	centroid_pairwise_dist	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/k/_means/_clust.py	F	assign_clusters	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/k/_means/_clust.py	F	plot_heterogeneity	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/k/_means/_clust.py	F	plot_kmeans	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/k/_nearest/_neighbours.py	C	KNN	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/k/_nearest/_neighbours.py	M	KNN.classify	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/k/_nearest/_neighbours.py	M	KNN.__init__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/k/_nearest/_neighbours.py	M	KNN._euclidean_distance	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/linear/_discriminant/_analysis.py	F	main	C	13
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/linear/_discriminant/_analysis.py	F	predict_y_values	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/linear/_discriminant/_analysis.py	F	valid_input	A	5

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D: /code\_assistant/Git\_repo/TheAlgorithms\\\_Python/machine\_learning/linear\_discriminant\_analysis.py	F	y_generator	A	3
D: /code\_assistant/Git\_repo/TheAlgorithms\\\_Python/machine\_learning/linear\_discriminant\_analysis.py	F	calculate_variance	A	3
D: /code\_assistant/Git\_repo/TheAlgorithms\\\_Python/machine\_learning/linear\_discriminant\_analysis.py	F	accuracy	A	3
D: /code\_assistant/Git\_repo/TheAlgorithms\\\_Python/machine\_learning/linear\_discriminant\_analysis.py	F	gaussian_distribution	A	2
D: /code\_assistant/Git\_repo/TheAlgorithms\\\_Python/machine\_learning/linear\_discriminant\_analysis.py	F	calculate_mean	A	1
D: /code\_assistant/Git\_repo/TheAlgorithms\\\_Python/machine\_learning/linear\_discriminant\_analysis.py	F	calculate_probabilities	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\\\_Python/machine\_learning/linear\_regression.py	F	collect_dataset	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\\\_Python/machine\_learning/linear\_regression.py	F	run_linear_regression	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\\\_Python/machine\_learning/linear\_regression.py	F	mean_absolute_error	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\\\_Python/machine\_learning/linear\_regression.py	F	main	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\\\_Python/machine\_learning/linear\_regression.py	F	run_steep_gradient_descent	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\\\_Python/machine\_learning/linear\_regression.py	F	sum_of_square_error	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\\\_Python/machine\_learning/logistic\_regression.py	F	logistic_reg	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\\\_Python/machine\_learning/logistic\_regression.py	F	sigmoid_function	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\\\_Python/machine\_learning/logistic\_regression.py	F	cost_function	A	1

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_/_Python/machine/_learning/logistic/_regression.py	F	log_likelihood	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_/_Python/machine/_learning/logistic/_regression.py	F	predict_prob	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_/_Python/machine/_learning/loss/_functions.py	F	categorical_focal_cross_entropy	A	7
D:/code/_assistant/Git/_repo/TheAlgorithms/_/_Python/machine/_learning/loss/_functions.py	F	perplexity_loss	B	6
D:/code/_assistant/Git/_repo/TheAlgorithms/_/_Python/machine/_learning/loss/_functions.py	F	categorical_cross_entropy	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_/_Python/machine/_learning/loss/_functions.py	F	hinge_loss	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_/_Python/machine/_learning/loss/_functions.py	F	binary_cross_entropy	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_/_Python/machine/_learning/loss/_functions.py	F	binary_focal_cross_entropy	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_/_Python/machine/_learning/loss/_functions.py	F	huber_loss	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_/_Python/machine/_learning/loss/_functions.py	F	mean_squared_error	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_/_Python/machine/_learning/loss/_functions.py	F	mean_absolute_error	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_/_Python/machine/_learning/loss/_functions.py	F	mean_squared_logarithmic_error	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_/_Python/machine/_learning/loss/_functions.py	F	mean_absolute_percentage_error	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_/_Python/machine/_learning/loss/_functions.py	F	smooth_l1_loss	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_/_Python/machine/_learning/loss/_functions.py	F	kullback_leibler_divergence	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_/_Python/machine/_learning/mfcc.py	F	audio_frames	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_/_Python/machine/_learning/mfcc.py	F	calculate_fft	A	2

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine/_learning/mfcc.py	F	get_filters	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine/_learning/mfcc.py	F	discrete_cosine_transform	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine/_learning/mfcc.py	F	mfcc	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine/_learning/mfcc.py	F	normalize	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine/_learning/mfcc.py	F	calculate_signal_power	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine/_learning/mfcc.py	F	freq_to_mel	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine/_learning/mfcc.py	F	mel_to_freq	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine/_learning/mfcc.py	F	mel_spaced_filterbank	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine/_learning/mfcc.py	F	get_filter_points	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine/_learning/mfcc.py	F	example	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine/_learning/multilayer/_perceptron/_classifier.py	F	wrapper	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine/_learning/polynomial/_regression.py	C	PolynomialRegression	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine/_learning/polynomial/_regression.py	M	PolynomialRegression.__init__	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine/_learning/polynomial/_regression.py	M	PolynomialRegression._design_matrix	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine/_learning/polynomial/_regression.py	M	PolynomialRegression.fit	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine/_learning/polynomial/_regression.py	M	PolynomialRegression.predict	A	2

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/machine\_learning/polynomial\_regression.py	F	main	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/machine\_learning/principle\_component\_analysis.py	F	collect_dataset	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/machine\_learning/principle\_component\_analysis.py	F	apply_pca	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/machine\_learning/principle\_component\_analysis.py	F	main	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/machine\_learning/scoring\_functions.py	F	mae	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/machine\_learning/scoring\_functions.py	F	mse	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/machine\_learning/scoring\_functions.py	F	rmse	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/machine\_learning/scoring\_functions.py	F	rmsle	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/machine\_learning/scoring\_functions.py	F	mbd	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/machine\_learning/scoring\_functions.py	F	manual_accuracy	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/machine\_learning/self\_organizing\_map.py	C	SelfOrganizingMap	A	4
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/machine\_learning/self\_organizing\_map.py	F	main	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/machine\_learning/self\_organizing\_map.py	M	SelfOrganizingMap.get_winner	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/machine\_learning/self\_organizing\_map.py	M	SelfOrganizingMap.update	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/machine\_learning/sequential\_minimum\_optimization.py	M	SmoSVM.fit	C	15

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/sequential/_minimum/_optimization.py	M	SmoSVM._choose_a1	C	12
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/sequential/_minimum/_optimization.py	M	SmoSVM._choose_a2	C	12
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/sequential/_minimum/_optimization.py	M	SmoSVM._get_new_alpha	C	11
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/sequential/_minimum/_optimization.py	M	SmoSVM.predict	B	6
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/sequential/_minimum/_optimization.py	C	SmoSVM	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/sequential/_minimum/_optimization.py	F	test_cancer_data	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/sequential/_minimum/_optimization.py	M	SmoSVM.__init__	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/sequential/_minimum/_optimization.py	M	SmoSVM._check_obey_kkt	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/sequential/_minimum/_optimization.py	F	plot_partition_boundary	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/sequential/_minimum/_optimization.py	M	SmoSVM._calculate_k_matrix	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/sequential/_minimum/_optimization.py	M	SmoSVM.support	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/sequential/_minimum/_optimization.py	M	Kernel._check	A	3

（续下页）



文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/sequential/_minimum/_optimization.py	M	SmoSVM._k	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/sequential/_minimum/_optimization.py	M	SmoSVM._e	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/sequential/_minimum/_optimization.py	M	SmoSVM._predict	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/sequential/_minimum/_optimization.py	M	SmoSVM._choose_alphas	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/sequential/_minimum/_optimization.py	M	SmoSVM._norm	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/sequential/_minimum/_optimization.py	C	Kernel	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/sequential/_minimum/_optimization.py	F	count_time	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/sequential/_minimum/_optimization.py	F	test_demonstration	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/sequential/_minimum/_optimization.py	F	test_linear_kernel	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/sequential/_minimum/_optimization.py	F	test_rbf_kernel	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/sequential/_minimum/_optimization.py	M	SmoSVM._is_unbound	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/sequential/_minimum/_optimization.py	M	SmoSVM._is_support	A	1

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/sequential/_minimum/_optimization.py	M	SmoSVM.unbound	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/sequential/_minimum/_optimization.py	M	SmoSVM.length	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/sequential/_minimum/_optimization.py	M	Kernel.__init__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/sequential/_minimum/_optimization.py	M	Kernel._polynomial	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/sequential/_minimum/_optimization.py	M	Kernel._linear	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/sequential/_minimum/_optimization.py	M	Kernel._rbf	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/sequential/_minimum/_optimization.py	M	Kernel._get_kernel	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/sequential/_minimum/_optimization.py	M	Kernel.__call__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/sequential/_minimum/_optimization.py	M	Kernel.__repr__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/similarity/_search.py	F	similarity_search	B	9
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/similarity/_search.py	F	euclidean	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/similarity/_search.py	F	cosine_similarity	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/support/_vector/_machines.py	M	SVC.__init__	B	6
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/support/_vector/_machines.py	C	SVC	A	4

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/support/_vector/_machines.py	M	SVC.fit	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/support/_vector/_machines.py	M	SVC.predict	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/support/_vector/_machines.py	F	norm_squared	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/support/_vector/_machines.py	M	SVC.__linear	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/support/_vector/_machines.py	M	SVC.__rbf	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/t/_stochastic/_neighbour/_embedding.py	F	apply_tsne	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/t/_stochastic/_neighbour/_embedding.py	F	main	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/t/_stochastic/_neighbour/_embedding.py	F	collect_dataset	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/t/_stochastic/_neighbour/_embedding.py	F	compute_pairwise_affinities	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/t/_stochastic/_neighbour/_embedding.py	F	compute_low_dim_affinities	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/word/_frequency/_functions.py	F	inverse_document_frequency	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/word/_frequency/_functions.py	F	term_frequency	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/word/_frequency/_functions.py	F	document_frequency	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/word/_frequency/_functions.py	F	tf_idf	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/machine_learning/xgboost/_classifier.py	F	data_handling	A	1

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code\_assistant/Git\_repo/TheAlgorithms\\\_Python/machine\_learning/xgboost\_classifier.py	F	xgboost	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\\\_Python/machine\_learning/xgboost\_classifier.py	F	main	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\\\_Python/machine\_learning/xgboost\_regressor.py	F	data_handling	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\\\_Python/machine\_learning/xgboost\_regressor.py	F	xgboost	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\\\_Python/machine\_learning/xgboost\_regressor.py	F	main	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\\\_Python/machine\_learning/forecasting/run.py	F	data_safety_checker	A	5
D:/code\_assistant/Git\_repo/TheAlgorithms\\\_Python/machine\_learning/forecasting/run.py	F	linear_regression_prediction	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\\\_Python/machine\_learning/forecasting/run.py	F	sarimax_predictor	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\\\_Python/machine\_learning/forecasting/run.py	F	support_vector_regressor	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\\\_Python/machine\_learning/forecasting/run.py	F	interquartile_range_checker	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\\\_Python/machine\_learning/local\_weighted\_learning/local\_weighted\_learning.py	F	weight_matrix	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\\\_Python/machine\_learning/local\_weighted\_learning/local\_weighted\_learning.py	F	local_weight_regression	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\\\_Python/machine\_learning/local\_weighted\_learning/local\_weighted\_learning.py	F	local_weight	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\\\_Python/machine\_learning/local\_weighted\_learning/local\_weighted\_learning.py	F	load_data	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\\\_Python/machine\_learning/local\_weighted\_learning/local\_weighted\_learning.py	F	plot_preds	A	1

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/abs.py	F	test_abs_val	B	7
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/abs.py	F	abs_min	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/abs.py	F	abs_max	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/abs.py	F	abs_val	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/abs.py	F	abs_max_sort	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/addition\_without\_arithmetic.py	F	add	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/aliquot\_sum.py	F	aliquot_sum	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/allocation\_n\_number.py	F	allocation_num	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/arc\_length.py	F	arc_length	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/area.py	F	area_triangle_three_sides	B	7
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/area.py	F	surface_area_cuboid	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/area.py	F	surface_area_conical_frustum	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/area.py	F	surface_area_torus	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/area.py	F	area_trapezium	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/area.py	F	area_reg_polygon	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/area.py	F	surface_area_cone	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/area.py	F	surface_area_cylinder	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/area.py	F	area_rectangle	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/area.py	F	area_triangle	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/area.py	F	area_parallellogram	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/area.py	F	area_ellipse	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/area.py	F	area_rhombus	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/area.py	F	surface_area_cube	A	2

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/area.py	F	surface_area_sphere	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/area.py	F	surface_area_hemisphere	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/area.py	F	area_square	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/area.py	F	area_circle	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/area/_under_curve.py	F	trapezoidal_area	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/area/_under_curve.py	F	f	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/average/_absolute_deviation.py	F	average_absolute_deviation	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/average/_mean.py	F	mean	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/average/_median.py	F	median	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/average/_median.py	F	main	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/average/_mode.py	F	mode	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/bailey/_borwein_plouffe.py	F	bailey_borwein_plouffe	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/bailey/_borwein_plouffe.py	F	_subsum	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/base/_neg2_conversion.py	F	decimal_to_negative_base_2	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/basic/_maths.py	F	sum_of_divisors	B	7
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/basic/_maths.py	F	prime_factors	B	6
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/basic/_maths.py	F	number_of_divisors	B	6
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/basic/_maths.py	F	euler_phi	A	3

（续下页）

文件	类型	符号 (函数/方法)	等级	分数
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/maths/binary\_exponentiation.py	F	binary_exp_mod_recursive	A	5
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/maths/binary\_exponentiation.py	F	binary_exp_mod_iterative	A	5
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/maths/binary\_exponentiation.py	F	binary_exp_recursive	A	4
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/maths/binary\_exponentiation.py	F	binary_exp_iterative	A	4
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/maths/binary\_multiplication.py	F	binary_multiply	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/maths/binary\_multiplication.py	F	binary_mod_multiply	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/maths/binomial\_coefficient.py	F	binomial_coefficient	B	7
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/maths/binomial\_distribution.py	F	binomial_distribution	B	7
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/maths/ceil.py	F	ceil	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/maths/chebyshev\_distance.py	F	chebyshev_distance	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/maths/check\_polygon.py	F	check_polygon	A	4
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/maths/chinese\_remainder\_theorem.py	F	extended_euclid	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/maths/chinese\_remainder\_theorem.py	F	invert_modulo	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/maths/chinese\_remainder\_theorem.py	F	chinese_remainder_theorem	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/maths/chinese\_remainder\_theorem.py	F	chinese_remainder_theorem2	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/maths/chudnovsky\_algorithm.py	F	pi	A	4
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/maths/collatz\_sequence.py	F	collatz_sequence	A	5

(续下页)

文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/collatz/_sequence.py	F	main	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/combinations.py	F	combinations	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/continued/_fraction.py	F	continued_fraction	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/decimal/_isolate.py	F	decimal_isolate	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/decimal/_to/_fraction.py	F	decimal_to_fraction	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/dodecahedron.py	F	dodecahedron_surface_area	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/dodecahedron.py	F	dodecahedron_volume	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/double/_factorial.py	F	double_factorial_recursive	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/double/_factorial.py	F	double_factorial_iterative	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/dual/_number/_automatic/_differentiation.py	M	Dual.__mul__	B	7
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/dual/_number/_automatic/_differentiation.py	M	Dual.__pow__	B	6
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/dual/_number/_automatic/_differentiation.py	F	differentiate	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/dual/_number/_automatic/_differentiation.py	M	Dual.__add__	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/dual/_number/_automatic/_differentiation.py	C	Dual	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/dual/_number/_automatic/_differentiation.py	M	Dual.__truediv__	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/dual/_number/_automatic/_differentiation.py	M	Dual.__floordiv__	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/dual/_number/_automatic/_differentiation.py	M	Dual.__init__	A	2

（续下页）



文件	类型	符号（函数/方法）	等级	分数
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/maths/dual\_number\_automatic\_differentiation.py	M	Dual.__repr__	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/maths/dual\_number\_automatic\_differentiation.py	M	Dual.reduce	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/maths/dual\_number\_automatic\_differentiation.py	F	f	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/maths/dual\_number\_automatic\_differentiation.py	M	Dual.__sub__	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/maths/entropy.py	F	calculate_prob	B	6
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/maths/entropy.py	F	analyze_text	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/maths/entropy.py	F	main	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/maths/euclidean\_distance.py	F	euclidean_distance_no_np	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/maths/euclidean\_distance.py	F	euclidean_distance	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/maths/euclidean\_distance.py	F	benchmark	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/maths/eulers\_totient.py	F	totient	B	8
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/maths/euler\_method.py	F	explicit_euler	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/maths/euler\_modified.py	F	euler_modified	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/maths/extended\_euclidean\_algorithm.py	F	extended_euclidean_algorithm	B	6
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/maths/extended\_euclidean\_algorithm.py	F	main	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/maths/factorial.py	F	factorial	A	4
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/maths/factorial.py	F	factorial_recursive	A	4

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/factors.py	F	factors_of_a_number	B	6
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/fast\_inverse\_sqrt.py	F	fast_inverse_sqrt	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/fermat\_little\_theorem.py	F	binary_exponentiation	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/fibonacci.py	F	fib_iterative	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/fibonacci.py	F	fib_binet	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/fibonacci.py	F	matrix_pow_np	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/fibonacci.py	F	fib_iterative_yield	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/fibonacci.py	F	fib_recursive	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/fibonacci.py	F	fib_recursive_cached	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/fibonacci.py	F	fib_memoization	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/fibonacci.py	F	fib_matrix_np	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/fibonacci.py	F	time_func	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/find\_max.py	F	find_max_recursive	B	8
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/find\_max.py	F	find_max_iterative	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/find\_min.py	F	find_min_recursive	B	8
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/find\_min.py	F	find_min_iterative	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/floor.py	F	floor	A	2

（续下页）

文件	类型	符号 (函数/方法)	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/gamma.py	F	gamma_recursive	B	6
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/gamma.py	F	gamma_iterative	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/gamma.py	F	integrand	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/gaussian.py	F	gaussian	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/gaussian.py	F	get_factors	B	6
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/gcd_of_n_numbers.py	F	get_greatest_common_divisor	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/gcd_of_n_numbers.py	F	compute_geometric_mean	B	8
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/geometric_mean.py	F	is_safe_prime	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/germain_primes.py	F	is_germain_prime	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/germain_primes.py	F	greatest_common_divisor	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/greatest_common_divisor.py	F	gcd_by_iterative	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/greatest_common_divisor.py	F	main	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/greatest_common_divisor.py	F	exact_prime_factor_count	B	7
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/hardy_ramanujan_algo.py	F	integer_square_root	B	7
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/integer_square_root.py	F	find_median	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/interquartile_range.py	F	interquartile_range	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/interquartile_range.py	F	is_int_palindrome	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/is_int_palindrome.py	F	is_ip_v4_address_valid	B	6
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/is_ip_v4_address_valid.py	F			

(续下页)

文件	类型	符号 (函数/方法)	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/is\_square\_free.py	F	is_square_free	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/jaccard\_similarity.py	F	jaccard_similarity	C	11
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/joint\_probability\_distribution.py	F	joint_probability_distribution	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/joint\_probability\_distribution.py	F	covariance	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/joint\_probability\_distribution.py	F	expectation	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/joint\_probability\_distribution.py	F	variance	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/joint\_probability\_distribution.py	F	standard_deviation	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/josephus\_problem.py	F	josephus_recursive	B	6
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/josephus\_problem.py	F	josephus_iterative	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/josephus\_problem.py	F	find_winner	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/juggler\_sequence.py	F	juggler_sequence	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/karatsuba.py	F	karatsuba	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/karatsuba.py	F	main	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/kth\_lexicographic\_permutation.py	F	kth_permutation	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/largest\_of\_very\_large\_numbers.py	F	res	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/least\_common\_multiple.py	C	TestLeastCommonMultiple	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/least\_common\_multiple.py	F	least_common_multiple_slow	A	4

(续下页)

文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/least_common_multiple.py	M	TestLeastCommonMultiple.test_lcm_function	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/least_common_multiple.py	F	least_common_multiple_fast	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/least_common_multiple.py	F	benchmark	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/line_length.py	F	line_length	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/line_length.py	F	f	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/liouville_lambda.py	F	liouville_lambda	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/lucas_lehmer_primality_test.py	F	lucas_lehmer_test	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/lucas_series.py	F	recursive_lucas_number	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/lucas_series.py	F	dynamic_lucas_number	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/maclaurin_series.py	F	maclaurin_sin	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/maclaurin_series.py	F	maclaurin_cos	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/manhattan_distance.py	F	_validate_point	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/manhattan_distance.py	F	manhattan_distance	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/manhattan_distance.py	F	manhattan_distance_one_liner	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/matrix_exponentiation.py	C	Matrix	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/matrix_exponentiation.py	F	simple_fibonacci	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/matrix_exponentiation.py	M	Matrix.__init__	A	4

（续下页）

文件	类型	符号 (函数/方法)	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/matrix/_exponentiation.py	M	Matrix.__mul__	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/matrix/_exponentiation.py	F	modular_exponentiation	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/matrix/_exponentiation.py	F	fibonacci_with_matrix_exponentiation	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/matrix/_exponentiation.py	F	matrix_exponentiation_time	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/matrix/_exponentiation.py	F	simple_fibonacci_time	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/matrix/_exponentiation.py	F	main	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/max/_sum/_sliding_window.py	F	max_sum_in_array	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/minkowski/_distance.py	F	minkowski_distance	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/mobius/_function.py	F	mobius	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/modular/_division.py	F	extended_gcd	B	7
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/modular/_division.py	F	modular_division	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/modular/_division.py	F	greatest_common_divisor	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/modular/_division.py	F	invert_modulo	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/modular/_division.py	F	extended_euclid	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/modular/_division.py	F	modular_division2	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/modular/_exponential.py	F	modular_exponential	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/modular/_exponential.py	F	main	A	1

(续下页)

文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/monte_carlo.py	F	pi_estimator	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/monte_carlo.py	F	area_under_curve_estimator	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/monte_carlo.py	F	area_under_line_estimator_check		1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/monte_carlo.py	F	pi_estimator_using_area_under_curve	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/monte_carlo_dice.py	F	throw_dice	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/monte_carlo_dice.py	C	Dice	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/monte_carlo_dice.py	M	Dice.__init__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/monte_carlo_dice.py	M	Dice.roll	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/number_of_digits.py	F	num_digits	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/number_of_digits.py	F	num_digits_fast	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/number_of_digits.py	F	benchmark	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/number_of_digits.py	F	num_digits_faster	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/odd_sieve.py	F	odd_sieve	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/perfect_cube.py	F	perfect_cube_binary_search	B	6
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/perfect_cube.py	F	perfect_cube	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/perfect_number.py	F	perfect	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/perfect_square.py	F	perfect_square_binary_search	A	4

（续下页）

文件	类型	符号 (函数/方法)	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/perfect/_square.py	F	perfect_square	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/persistence.py	F	multiplicative_persistence	B	6
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/persistence.py	F	additive_persistence	B	6
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/pi/_generator.py	F	calculate_pi	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/pi/_generator.py	F	main	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/pi/_monte_carlo/_estimation.py	F	estimate_pi	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/pi/_monte_carlo/_estimation.py	C	Point	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/pi/_monte_carlo/_estimation.py	M	Point.__init__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/pi/_monte_carlo/_estimation.py	M	Point.is_in_unit_circle	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/pi/_monte_carlo/_estimation.py	M	Point.random_unit_square	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/points/_are_collinear/_3d.py	F	is_zero_vector	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/points/_are_collinear/_3d.py	F	create_vector	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/points/_are_collinear/_3d.py	F	get_3d_vectors_cross	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/points/_are_collinear/_3d.py	F	are_collinear	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/pollard/_rho.py	F	pollard_rho	B	8
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/polynomial/_evaluation.py	F	evaluate_poly	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/polynomial/_evaluation.py	F	horner	A	2

(续下页)



文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/power/_using/_recursion.py	F	power	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/primelib.py	F	kg_v	C	15
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/primelib.py	F	sieve_er	B	9
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/primelib.py	F	prime_factorization	B	8
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/primelib.py	F	goldbach	B	8
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/primelib.py	F	is_prime	B	6
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/primelib.py	F	get_primes_between	B	6
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/primelib.py	F	get_prime_numbers	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/primelib.py	F	get_prime	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/primelib.py	F	get_divisors	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/primelib.py	F	greatest_prime_factor	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/primelib.py	F	smallest_prime_factor	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/primelib.py	F	is_even	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/primelib.py	F	is_odd	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/primelib.py	F	is_perfect_number	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/primelib.py	F	simplify_fraction	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/primelib.py	F	factorial	A	3

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:	F	fib	A	3
/code\_assistant/Git\_repo/TheAlgorithms\\\_Python/math/primelib.py				
D:/code\_assistant/Git\_repo/TheAlgorithms\\\_Python/math/prime\_check.py	C	Test	C	11
D:/code\_assistant/Git\_repo/TheAlgorithms\\\_Python/math/prime\_check.py	M	Test.test_primes	C	11
D:/code\_assistant/Git\_repo/TheAlgorithms\\\_Python/math/prime\_check.py	F	is_prime	B	10
D:/code\_assistant/Git\_repo/TheAlgorithms\\\_Python/math/prime\_check.py	M	Test.test_not_primes	B	8
D:/code\_assistant/Git\_repo/TheAlgorithms\\\_Python/math/prime\_factors.py	F	unique_prime_factors	A	5
D:/code\_assistant/Git\_repo/TheAlgorithms\\\_Python/math/prime\_factors.py	F	prime_factors	A	4
D:/code\_assistant/Git\_repo/TheAlgorithms\\\_Python/math/prime\_numbers.py	F	fast_primes	B	9
D:/code\_assistant/Git\_repo/TheAlgorithms\\\_Python/math/prime\_numbers.py	F	slow_primes	B	8
D:/code\_assistant/Git\_repo/TheAlgorithms\\\_Python/math/prime\_numbers.py	F	primes	B	8
D:/code\_assistant/Git\_repo/TheAlgorithms\\\_Python/math/prime\_numbers.py	F	benchmark	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\\\_Python/math/prime\_sieve\_eratosthenes.py	F	prime_sieve_eratosthenes	B	7
D:/code\_assistant/Git\_repo/TheAlgorithms\\\_Python/math/print\_multiplication\_table.py	F	multiplication_table	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\\\_Python/math/pythagoras.py	C	Point	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\\\_Python/math/pythagoras.py	F	distance	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\\\_Python/math/pythagoras.py	M	Point.__init__	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\\\_Python/math/pythagoras.py	M	Point.__repr__	A	1

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/qr/_decomposition.py	F	qr_householder	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/quadratic/_equations/_complex/_numbers.py	F	quadratic_roots	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/quadratic/_equations/_complex/_numbers.py	F	main	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/radians.py	F	radians	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/radix2/_fft.py	M	FFT.__dft	C	11
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/radix2/_fft.py	C	FFT	B	9
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/radix2/_fft.py	M	FFT.__multiply	B	9
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/radix2/_fft.py	M	FFT.__init__	B	7
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/radix2/_fft.py	M	FFT.__str__	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/remove/_digit.py	F	remove_digit	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/segmented/_sieve.py	F	sieve	C	12
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/sieve/_of/_eratosthenes.py	F	prime_sieve	B	8
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/sigmoid.py	F	sigmoid	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/signum.py	F	test_signum	B	10
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/signum.py	F	signum	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/simultaneous/_linear/_equation/_solver.py	F	solve_simultaneous	C	20
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/simultaneous/_linear/_equation/_solver.py	F	simplify	B	10
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/sin.py	F	sin	A	2

（续下页）

文件	类型	符号 (函数/方法)	等级	分数
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/maths/sock\_merchant.py	F	sock_merchant	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/maths/softmax.py	F	softmax	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/maths/solovay\_strassen\_primality\_test.py	F	jacobi\_symbol	B	7
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/maths/solovay\_strassen\_primality\_test.py	F	solovay\_strassen	B	6
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/maths/spearman\_rank\_correlation\_coefficient.py	F	assign\_ranks	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/maths/spearman\_rank\_correlation\_coefficient.py	F	calculate\_spearman\_rank\_correlation	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/maths/sumset.py	F	sumset	A	5
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/maths/sum\_of\_arithmetic\_series.py	F	sum\_of\_series	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/maths/sum\_of\_arithmetic\_series.py	F	main	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/maths/sum\_of\_digits.py	F	benchmark	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/maths/sum\_of\_digits.py	F	sum\_of\_digits	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/maths/sum\_of\_digits.py	F	sum\_of\_digits\_recursion	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/maths/sum\_of\_digits.py	F	sum\_of\_digits\_compact	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/maths/sum\_of\_geometric\_progression.py	F	sum\_of\_geometric\_progression	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/maths/sum\_of\_harmonic\_series.py	F	sum\_of\_harmonic\_progression	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/maths/sylvester\_sequence.py	F	sylvester	A	4
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/maths/tanh.py	F	tangent\_hyperbolic	A	1

(续下页)

文件	类型	符号（函数/方法）	等级	分数
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/maths/test\_factorial.py	F	test_positive_integers	A	4
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/maths/test\_factorial.py	F	test_zero	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/maths/test\_factorial.py	F	test_large_number	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/maths/test\_factorial.py	F	test_negative_number	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/maths/test\_factorial.py	F	test_float_number	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/maths/three\_sum.py	F	three_sum	C	11
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/maths/trapezoidal\_rule.py	F	trapezoidal_rule	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/maths/trapezoidal\_rule.py	F	make_points	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/maths/trapezoidal\_rule.py	F	f	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/maths/trapezoidal\_rule.py	F	main	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/maths/triplet\_sum.py	F	triplet_sum2	B	6
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/maths/triplet\_sum.py	F	triplet_sum1	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/maths/triplet\_sum.py	F	make_dataset	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/maths/triplet\_sum.py	F	solution_times	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/maths/twin\_prime.py	F	twin_prime	A	4
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/maths/two\_pointer.py	F	two_pointer	A	4
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/maths/two\_sum.py	F	two_sum	A	3

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/volume.py	F	vol_spheres_intersect	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/volume.py	F	vol_spheres_union	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/volume.py	F	vol_hollow_circular_cylinder	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/volume.py	F	vol_cuboid	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/volume.py	F	vol_conical_frustum	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/volume.py	F	vol_spherical_cap	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/volume.py	F	vol_cone	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/volume.py	F	vol_right_circ_cone	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/volume.py	F	vol_prism	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/volume.py	F	vol_pyramid	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/volume.py	F	vol_circular_cylinder	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/volume.py	F	vol_torus	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/volume.py	F	vol_cube	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/volume.py	F	vol_sphere	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/volume.py	F	vol_hemisphere	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/volume.py	F	vol_icosahedron	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/volume.py	F	main	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/zellers\_congruence.py	F	zeller	B	9
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/numerical\_analysis/adams\_bashforth.py	C	AdamsBashforth	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/numerical\_analysis/adams\_bashforth.py	M	AdamsBashforth.__post_init__	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/numerical\_analysis/adams\_bashforth.py	M	AdamsBashforth.step_2	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/numerical\_analysis/adams\_bashforth.py	M	AdamsBashforth.step_3	A	4

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/maths/numerical\_analysis/adams\_bashforth.py	M	AdamsBashforth.step_4	A	4
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/maths/numerical\_analysis/adams\_bashforth.py	M	AdamsBashforth.step_5	A	4
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/maths/numerical\_analysis/bisection.py	F	bisection	B	7
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/maths/numerical\_analysis/bisection.py	F	f	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/maths/numerical\_analysis/bisection\_2.py	F	bisection	A	5
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/maths/numerical\_analysis/bisection\_2.py	F	equation	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/maths/numerical\_analysis/integration\_by\_simpson\_approx.py	F	simpson\_integration	B	8
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/maths/numerical\_analysis/integration\_by\_simpson\_approx.py	F	f	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/maths/numerical\_analysis/intersection.py	F	intersection	A	5
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/maths/numerical\_analysis/intersection.py	F	f	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/maths/numerical\_analysis/nevilles\_method.py	F	neville\_interpolate	A	5
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/maths/numerical\_analysis/newton\_forward\_interpolation.py	F	main	B	8
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/maths/numerical\_analysis/newton\_forward\_interpolation.py	F	ucal	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/maths/numerical\_analysis/newton\_raphson.py	F	newton\_raphson	A	5
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/maths/numerical\_analysis/newton\_raphson.py	F	calc\_derivative	A	1

（续下页）

文件	类型	符号 (函数/方法)	等级	分数
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/maths/numerical\_analysis/newton\_raphson.py	F	func	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/maths/numerical\_analysis/numerical\_integration.py	F	trapezoidal_area	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/maths/numerical\_analysis/numerical\_integration.py	F	f	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/maths/numerical\_analysis/proper\_fractions.py	F	proper_fractions	A	5
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/maths/numerical\_analysis/runge\_kutta.py	F	runge_kutta	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/maths/numerical\_analysis/runge\_kutta\_fehlberg\_45.py	F	runge_kutta_fehlberg_45	A	4
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/maths/numerical\_analysis/runge\_kutta\_gills.py	F	runge_kutta_gills	A	4
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/maths/numerical\_analysis/secant\_method.py	F	secant_method	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/maths/numerical\_analysis/secant\_method.py	F	f	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/maths/numerical\_analysis/simpson\_rule.py	F	method_2	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/maths/numerical\_analysis/simpson\_rule.py	F	make_points	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/maths/numerical\_analysis/simpson\_rule.py	F	f	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/maths/numerical\_analysis/simpson\_rule.py	F	main	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/maths/numerical\_analysis/square\_root.py	F	square_root_iterative	A	4
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/maths/numerical\_analysis/square\_root.py	F	get_initial_point	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/maths/numerical\_analysis/square\_root.py	F	fx	A	1

(续下页)



文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/numerical_analysis/square/_root.py	F	fx_derivative	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/numerical_analysis/weierstrass/_method.py	F	weierstrass_method	B	7
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/polynomials/single/_indeterminate/_operations.py	M	Polynomial.__str__	B	7
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/polynomials/single/_indeterminate/_operations.py	M	Polynomial.__eq__	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/polynomials/single/_indeterminate/_operations.py	M	Polynomial.__add__	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/polynomials/single/_indeterminate/_operations.py	C	Polynomial	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/polynomials/single/_indeterminate/_operations.py	M	Polynomial.__mul__	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/polynomials/single/_indeterminate/_operations.py	M	Polynomial.__init__	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/polynomials/single/_indeterminate/_operations.py	M	Polynomial.__neg__	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/polynomials/single/_indeterminate/_operations.py	M	Polynomial.evaluate	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/polynomials/single/_indeterminate/_operations.py	M	Polynomial.derivative	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/polynomials/single/_indeterminate/_operations.py	M	Polynomial.integral	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/polynomials/single/_indeterminate/_operations.py	M	Polynomial.__sub__	A	1

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/maths/polynomials/single\_indeterminate\_operations.py	M	Polynomial.__repr__	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/maths/polynomials/single\_indeterminate\_operations.py	M	Polynomial.__ne__	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/maths/series/arithmetic.py	F	is_arithmetic_series	B	6
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/maths/series/arithmetic.py	F	arithmetic_mean	A	4
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/maths/series/geometric.py	F	is_geometric_series	B	7
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/maths/series/geometric.py	F	geometric_mean	A	4
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/maths/series/geometric\_series.py	F	geometric_series	A	4
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/maths/series/harmonic.py	F	is_harmonic_series	B	9
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/maths/series/harmonic.py	F	harmonic_mean	A	4
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/maths/series/harmonic\_series.py	F	harmonic_series	A	4
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/maths/series/hexagonal\_numbers.py	F	hexagonal_numbers	A	4
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/maths/series/p\_series.py	F	p_series	A	4
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/maths/special\_numbers/armstrong\_numbers.py	F	pluperfect_number	A	5
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/maths/special\_numbers/armstrong\_numbers.py	F	armstrong_number	A	4
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/maths/special\_numbers/armstrong\_numbers.py	F	narcissistic_number	A	4
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/maths/special\_numbers/armstrong\_numbers.py	F	main	A	4

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/special\_numbers/automorphic\_number.py	F	is_automorphic_number	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/special\_numbers/bell\_numbers.py	F	bell_numbers	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/special\_numbers/bell\_numbers.py	F	_binomial_coefficient	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/special\_numbers/carmichael\_number.py	F	is_carmichael_number	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/special\_numbers/carmichael\_number.py	F	power	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/special\_numbers/catalan\_number.py	F	catalan	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/special\_numbers/hamming\_numbers.py	F	hamming	B	6
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/special\_numbers/happy\_number.py	F	is_happy_number	B	6
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/special\_numbers/harshad\_numbers.py	F	int_to_base	B	6
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/special\_numbers/harshad\_numbers.py	F	harshad_numbers_in_base	B	6
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/special\_numbers/harshad\_numbers.py	F	sum_of_digits	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/special\_numbers/harshad\_numbers.py	F	is_harshad_number_in_base	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/special\_numbers/hexagonal\_number.py	F	hexagonal	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/special\_numbers/krishnamurthy\_number.py	F	factorial	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/special\_numbers/krishnamurthy\_number.py	F	krishnamurthy	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/special\_numbers/perfect\_number.py	F	perfect	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/special\_numbers/polygonal\_numbers.py	F	polygonal_num	A	3

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/special/_numbers/pronic/_number.py	F	is_pronic	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/special/_numbers/proth/_number.py	F	proth	B	7
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/special/_numbers/proth/_number.py	F	is_proth_number	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/special/_numbers/triangular/_numbers.py	F	triangular_number	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/special/_numbers/ugly/_numbers.py	F	ugly_numbers	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/special/_numbers/weird/_number.py	F	semi_perfect	B	9
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/special/_numbers/weird/_number.py	F	factors	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/special/_numbers/weird/_number.py	F	weird	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/maths/special/_numbers/weird/_number.py	F	abundant	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/matrix/binary/_search/_matrix.py	F	mat_bin_search	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/matrix/binary/_search/_matrix.py	F	binary_search	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/matrix/count/_islands/_in/_matrix.py	M	Matrix.count_islands	B	7
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/matrix/count/_islands/_in/_matrix.py	C	Matrix	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/matrix/count/_islands/_in/_matrix.py	M	Matrix.is_safe	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/matrix/count/_islands/_in/_matrix.py	M	Matrix.diffes	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/matrix/count/_islands/_in/_matrix.py	M	Matrix.__init__	A	1

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/matrix/count\_negative\_numbers\_in\_sorted\_matrix.py	F	find_negative_index	B	7
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/matrix/count\_negative\_numbers\_in\_sorted\_matrix.py	F	count_negatives_brute_force	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/matrix/count\_negative\_numbers\_in\_sorted\_matrix.py	F	count_negatives_brute_force_with_break		4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/matrix/count\_negative\_numbers\_in\_sorted\_matrix.py	F	validate_grid	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/matrix/count\_negative\_numbers\_in\_sorted\_matrix.py	F	generate_large_matrix	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/matrix/count\_negative\_numbers\_in\_sorted\_matrix.py	F	count_negatives_binary_search	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/matrix/count\_negative\_numbers\_in\_sorted\_matrix.py	F	benchmark	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/matrix/count\_paths.py	F	depth_first_search	B	8
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/matrix/cramers\_rule\_2x2.py	F	cramers_rule_2x2	B	6
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/matrix/inverse\_of\_matrix.py	F	inverse_of_matrix	C	20
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/matrix/largest\_square\_area\_in\_matrix.py	F	largest_square_area_in_matrix_bottom_up		5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/matrix/largest\_square\_area\_in\_matrix.py	F	largest_square_area_in_matrix_bottom_up_space_optim		
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/matrix/largest\_square\_area\_in\_matrix.py	F	largest_square_area_in_matrix_top_down_approch_with		
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/matrix/largest\_square\_area\_in\_matrix.py	F	largest_square_area_in_matrix_top_down_approch		

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/matrix/matrix\_based\_game.py	F	move_y	B	8
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/matrix/matrix\_based\_game.py	F	validate_matrix_content	B	6
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/matrix/matrix\_based\_game.py	F	validate_moves	A	4
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/matrix/matrix\_based\_game.py	F	move_x	A	4
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/matrix/matrix\_based\_game.py	F	play	A	4
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/matrix/matrix\_based\_game.py	F	validate_matrix_size	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/matrix/matrix\_based\_game.py	F	parse_moves	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/matrix/matrix\_based\_game.py	F	process_game	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/matrix/matrix\_based\_game.py	F	find_repeat	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/matrix/matrix\_based\_game.py	F	increment_score	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/matrix/matrix\_class.py	M	Matrix.add_column	B	8
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/matrix/matrix\_class.py	M	Matrix.__mul__	B	8
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/matrix/matrix\_class.py	M	Matrix.__init__	B	7
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/matrix/matrix\_class.py	M	Matrix.__pow__	B	7
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/matrix/matrix\_class.py	M	Matrix.determinant	B	6
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/matrix/matrix\_class.py	M	Matrix.add_row	B	6
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/matrix/matrix\_class.py	M	Matrix.get_minor	A	5

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/matrix/matrix\_class.py	M	Matrix.__str__	A	5
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/matrix/matrix\_class.py	C	Matrix	A	4
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/matrix/matrix\_class.py	M	Matrix.identity	A	4
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/matrix/matrix\_class.py	M	Matrix.cofactors	A	4
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/matrix/matrix\_class.py	M	Matrix.__add__	A	4
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/matrix/matrix\_class.py	M	Matrix.__sub__	A	4
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/matrix/matrix\_class.py	M	Matrix.columns	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/matrix/matrix\_class.py	M	Matrix.minors	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/matrix/matrix\_class.py	M	Matrix.adjugate	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/matrix/matrix\_class.py	M	Matrix.get_cofactor	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/matrix/matrix\_class.py	M	Matrix.inverse	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/matrix/matrix\_class.py	M	Matrix.__eq__	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/matrix/matrix\_class.py	M	Matrix.dot_product	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/matrix/matrix\_class.py	M	Matrix.num_rows	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/matrix/matrix\_class.py	M	Matrix.num_columns	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/matrix/matrix\_class.py	M	Matrix.order	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/matrix/matrix\_class.py	M	Matrix.is_square	A	1

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/matrix/matrix/_class.py	M	Matrix.is_invertable	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/matrix/matrix/_class.py	M	Matrix.__repr__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/matrix/matrix/_class.py	M	Matrix.__ne__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/matrix/matrix/_class.py	M	Matrix.__neg__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/matrix/matrix/_equalization.py	F	array_equalization	B	6
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/matrix/matrix/_multiplication/_recursion.py	F	matrix_multiply_recursive	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/matrix/matrix/_multiplication/_recursion.py	F	matrix_multiply	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/matrix/matrix/_multiplication/_recursion.py	F	is_square	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/matrix/matrix/_operation.py	F	multiply	B	7
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/matrix/matrix/_operation.py	F	add	B	6
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/matrix/matrix/_operation.py	F	subtract	B	6
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/matrix/matrix/_operation.py	F	inverse	B	6
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/matrix/matrix/_operation.py	F	scalar_multiply	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/matrix/matrix/_operation.py	F	identity	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/matrix/matrix/_operation.py	F	transpose	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/matrix/matrix/_operation.py	F	determinant	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/matrix/matrix/_operation.py	F	_verify_matrix_sizes	A	3

（续下页）



文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/matrix/matrix/_operation.py	F	minor	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/matrix/matrix/_operation.py	F	_check_not_integer	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/matrix/matrix/_operation.py	F	_shape	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/matrix/matrix/_operation.py	F	main	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/matrix/max/_area_of/_island.py	F	find_max_area	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/matrix/max/_area_of/_island.py	F	depth_first_search	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/matrix/max/_area_of/_island.py	F	is_safe	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/matrix/median/_matrix.py	F	median	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/matrix/nth/_fibonacci_using/_matrix/_exponentiation.py	F	multiply	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/matrix/nth/_fibonacci_using/_matrix/_exponentiation.py	F	nth_fibonacci_matrix	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/matrix/nth/_fibonacci_using/_matrix/_exponentiation.py	F	main	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/matrix/nth/_fibonacci_using/_matrix/_exponentiation.py	F	identity	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/matrix/nth/_fibonacci_using/_matrix/_exponentiation.py	F	nth_fibonacci_bruteforce	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/matrix/pascal/_triangle.py	F	generate_pascal_triangle_optimized	A	6
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/matrix/pascal/_triangle.py	F	print_pascal_triangle	A	5

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/matrix/pascal\_triangle.py	F	generate_pascal_triangle	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/matrix/pascal\_triangle.py	F	benchmark	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/matrix/pascal\_triangle.py	F	populate_current_row	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/matrix/pascal\_triangle.py	F	calculate_current_element	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/matrix/rotate\_matrix.py	F	make_matrix	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/matrix/rotate\_matrix.py	F	transpose	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/matrix/rotate\_matrix.py	F	reverse_column	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/matrix/rotate\_matrix.py	F	print_matrix	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/matrix/rotate\_matrix.py	F	rotate_90	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/matrix/rotate\_matrix.py	F	rotate_180	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/matrix/rotate\_matrix.py	F	rotate_270	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/matrix/rotate\_matrix.py	F	reverse_row	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/matrix/searching\_in\_sorted\_matrix.py	F	search_in_a_sorted_matrix	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/matrix/searching\_in\_sorted\_matrix.py	F	main	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/matrix/sherman\_morrison.py	M	Matrix.__mul__	B	9
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/matrix/sherman\_morrison.py	M	Matrix.__add__	B	6
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/matrix/sherman\_morrison.py	M	Matrix.sherman_morrison	B	6

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/matrix/sherman/_morrison.py	M	Matrix.validate_indices	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/matrix/sherman/_morrison.py	C	Matrix	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/matrix/sherman/_morrison.py	M	Matrix.__str__	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/matrix/sherman/_morrison.py	M	Matrix.__init__	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/matrix/sherman/_morrison.py	M	Matrix.__neg__	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/matrix/sherman/_morrison.py	M	Matrix.transpose	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/matrix/sherman/_morrison.py	F	test1	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/matrix/sherman/_morrison.py	M	Matrix.__getitem__	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/matrix/sherman/_morrison.py	M	Matrix.__setitem__	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/matrix/sherman/_morrison.py	F	test2	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/matrix/sherman/_morrison.py	M	Matrix.__repr__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/matrix/sherman/_morrison.py	M	Matrix.__sub__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/matrix/spiral/_print.py	F	spiral_print_clockwise	C	13
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/matrix/spiral/_print.py	F	check_matrix	B	7
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/matrix/spiral/_print.py	F	spiral_traversal	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/matrix/validate_sudoku/_board.py	F	is_valid_sudoku_board	B	10
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/matrix/tests/test_matrix/_operation.py	F	test_subtraction	B	6

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/matrix/tests/test\_matrix\_operation.py	F	test\_multiplication	B	6
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/matrix/tests/test\_matrix\_operation.py	F	test\_addition	A	5
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/matrix/tests/test\_matrix\_operation.py	F	test\_transpose	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/matrix/tests/test\_matrix\_operation.py	F	test\_scalar\_multiply	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/matrix/tests/test\_matrix\_operation.py	F	test\_identity	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/networking\_flow/ford\_fulkerson.py	F	breadth\_first\_search	A	5
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/networking\_flow/ford\_fulkerson.py	F	ford\_fulkerson	A	4
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/networking\_flow/minimum\_cut.py	F	mincut	B	9
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/networking\_flow/minimum\_cut.py	F	bfs	A	5
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/neural\_network/back\_propagation\_neural\_network.py	M	BPNN.train	B	6
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/neural\_network/back\_propagation\_neural\_network.py	C	DenseLayer	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/neural\_network/back\_propagation\_neural\_network.py	C	BPNN	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/neural\_network/back\_propagation\_neural\_network.py	M	BPNN.build	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/neural\_network/back\_propagation\_neural\_network.py	F	example	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/neural\_network/back\_propagation\_neural\_network.py	M	DenseLayer.__init__	A	2

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/neural\_network/back\_propagation\_neural\_network.py	M	DenseLayer.initializer	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/neural\_network/back\_propagation\_neural\_network.py	M	DenseLayer.cal_gradient	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/neural\_network/back\_propagation\_neural\_network.py	M	DenseLayer.forward_propagation	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/neural\_network/back\_propagation\_neural\_network.py	M	BPNN.summary	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/neural\_network/back\_propagation\_neural\_network.py	M	BPNN.plot_loss	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/neural\_network/back\_propagation\_neural\_network.py	F	sigmoid	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/neural\_network/back\_propagation\_neural\_network.py	M	DenseLayer.back_propagation	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/neural\_network/back\_propagation\_neural\_network.py	M	BPNN.__init__	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/neural\_network/back\_propagation\_neural\_network.py	M	BPNN.add_layer	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/neural\_network/back\_propagation\_neural\_network.py	M	BPNN.cal_loss	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/neural\_network/convolution\_neural\_network.py	M	CNN.convolute	B	6
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/neural\_network/convolution\_neural\_network.py	M	CNN.pooling	B	6
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/neural\_network/convolution\_neural\_network.py	M	CNN.train	B	6

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/neural_network/convolution_neural_network.py	M	CNN._calculate_gradient_from_pool	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/neural_network/convolution_neural_network.py	C	CNN	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/neural_network/convolution_neural_network.py	M	CNN.predict	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/neural_network/convolution_neural_network.py	M	CNN.__init__	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/neural_network/convolution_neural_network.py	M	CNN._expand	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/neural_network/convolution_neural_network.py	M	CNN.save_model	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/neural_network/convolution_neural_network.py	M	CNN.read_model	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/neural_network/convolution_neural_network.py	M	CNN.sig	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/neural_network/convolution_neural_network.py	M	CNN.do_round	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/neural_network/convolution_neural_network.py	M	CNN._expand_mat	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/neural_network/convolution_neural_network.py	M	CNN.convolution	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/neural_network/input_data.py	M	_DataSet.next_batch	B	10
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/neural_network/input_data.py	M	_DataSet.__init__	B	8
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/neural_network/input_data.py	F	read_data_sets	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/neural_network/input_data.py	C	_DataSet	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/neural_network/input_data.py	F	_extract_labels	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/neural_network/input_data.py	F	_maybe_download	A	3

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/neural\_network/input\_data.py	F	<code>_extract_images</code>	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/neural\_network/input\_data.py	F	<code>_read32</code>	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/neural\_network/input\_data.py	F	<code>_dense_to_one_hot</code>	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/neural\_network/input\_data.py	C	<code>_Datasets</code>	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/neural\_network/input\_data.py	M	<code>_DataSet.images</code>	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/neural\_network/input\_data.py	M	<code>_DataSet.labels</code>	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/neural\_network/input\_data.py	M	<code>_DataSet.num_examples</code>	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/neural\_network/input\_data.py	M	<code>_DataSet.epochs_completed</code>	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/neural\_network/simple\_neural\_network.py	F	<code>sigmoid_function</code>	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/neural\_network/simple\_neural\_network.py	F	<code>forward_propagation</code>	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/neural\_network/two\_hidden\_layers\_neural\_network.py	M	<code>TwoHiddenLayerNeuralNetwork.train</code>	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/neural\_network/two\_hidden\_layers\_neural\_network.py	C	<code>TwoHiddenLayerNeuralNetwork</code>	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/neural\_network/two\_hidden\_layers\_neural\_network.py	F	<code>sigmoid</code>	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/neural\_network/two\_hidden\_layers\_neural\_network.py	F	<code>sigmoid_derivative</code>	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/neural\_network/two\_hidden\_layers\_neural\_network.py	F	<code>example</code>	A	1

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/neural_network/two_hidden_layers_neural_network.py	M	TwoHiddenLayerNeuralNetwork.__init__		1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/neural_network/two_hidden_layers_neural_network.py	M	TwoHiddenLayerNeuralNetwork.feedforward		
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/neural_network/two_hidden_layers_neural_network.py	M	TwoHiddenLayerNeuralNetwork.back_propagation		
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/neural_network/two_hidden_layers_neural_network.py	M	TwoHiddenLayerNeuralNetwork.predict		1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/neural_network/activation_functions/binary_step.py	F	binary_step	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/neural_network/activation_functions/exponential_linear_unit.py	F	exponential_linear_unit	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/neural_network/activation_functions/gaussian_error_linear_unit.py	F	sigmoid	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/neural_network/activation_functions/gaussian_error_linear_unit.py	F	gaussian_error_linear_unit	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/neural_network/activation_functions/leaky_rectified_linear_unit.py	F	leaky_rectified_linear_unit	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/neural_network/activation_functions/mish.py	F	mish	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/neural_network/activation_functions/rectified_linear_unit.py	F	relu	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/neural_network/activation_functions/scaled_exponential_linear_unit.py	F	scaled_exponential_linear_unit	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/neural_network/activation_functions/soboleva_modified_hyperbolic_tangent.py	F	soboleva_modified_hyperbolic_tangent	A	1

（续下页）



文件	类型	符号 (函数/方法)	等级	分数
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/neural\_network/activation\_functions/softplus.py	F	softplus	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/neural\_network/activation\_functions/squareplus.py	F	squareplus	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/neural\_network/activation\_functions/swish.py	F	sigmoid	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/neural\_network/activation\_functions/swish.py	F	sigmoid_linear_unit	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/neural\_network/activation\_functions/swish.py	F	swish	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/other/activity\_selection.py	F	print_max_activities	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/other/alternative\_list\_arrange.py	F	alternative_list_arrange	A	5
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/other/bankers\_algorithm.py	M	BankersAlgorithm.main	C	13
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/other/bankers\_algorithm.py	M	BankersAlgorithm.__pretty_data	B	7
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/other/bankers\_algorithm.py	C	BankersAlgorithm	A	5
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/other/bankers\_algorithm.py	M	BankersAlgorithm.__processes_resource_summation	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/other/bankers\_algorithm.py	M	BankersAlgorithm.__need	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/other/bankers\_algorithm.py	M	BankersAlgorithm.__need_index_manager	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/other/bankers\_algorithm.py	M	BankersAlgorithm.__init__	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/other/bankers\_algorithm.py	M	BankersAlgorithm.__available_resources	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/other/davis\_putnam\_logemann\_loveland.py	F	find_pure_symbols	C	13

(续下页)

文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/other/davis/_putnam/_logemann/_loveland.py	F	dpll_algorithm	C	13
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/other/davis/_putnam/_logemann/_loveland.py	F	find_unit_clauses	B	10
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/other/davis/_putnam/_logemann/_loveland.py	M	Clause.evaluate	B	6
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/other/davis/_putnam/_logemann/_loveland.py	M	Clause.assign	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/other/davis/_putnam/_logemann/_loveland.py	F	generate_clause	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/other/davis/_putnam/_logemann/_loveland.py	F	generate_parameters	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/other/davis/_putnam/_logemann/_loveland.py	C	Clause	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/other/davis/_putnam/_logemann/_loveland.py	C	Formula	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/other/davis/_putnam/_logemann/_loveland.py	F	generate_formula	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/other/davis/_putnam/_logemann/_loveland.py	M	Formula.__str__	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/other/davis/_putnam/_logemann/_loveland.py	M	Clause.__init__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/other/davis/_putnam/_logemann/_loveland.py	M	Clause.__str__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/other/davis/_putnam/_logemann/_loveland.py	M	Clause.__len__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/other/davis/_putnam/_logemann/_loveland.py	M	Formula.__init__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/other/doomsday.py	F	get_week_day	B	7
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/other/fischer/_yates/_shuffle.py	F	fisher_yates_shuffle	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/other/gauss/_easter.py	F	gauss_easter	A	5

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/other/graham\_scan.py	F	graham_scan	C	14
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/other/graham\_scan.py	F	check_direction	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/other/graham\_scan.py	C	Direction	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/other/graham\_scan.py	F	angle_comparer	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/other/graham\_scan.py	M	Direction.__repr__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/other/greedy.py	F	greedy	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/other/greedy.py	F	build_menu	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/other/greedy.py	C	Things	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/other/greedy.py	F	test_greedy	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/other/greedy.py	M	Things.__init__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/other/greedy.py	M	Things.__repr__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/other/greedy.py	M	Things.get_value	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/other/greedy.py	M	Things.get_name	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/other/greedy.py	M	Things.get_weight	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/other/greedy.py	M	Things.value_weight	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/other/guess\_the\_number\_search.py	F	guess_the_number	B	7
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/other/guess\_the\_number\_search.py	F	temp_input_value	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/other/guess\_the\_number\_search.py	F	get_avg	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/other/guess\_the\_number\_search.py	F	main	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/other/h\_index.py	F	h_index	B	7

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/other/linear/_congruential/_generator.py	C	LinearCongruentialGenerator	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/other/linear/_congruential/_generator.py	M	LinearCongruentialGenerator.__init__		1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/other/linear/_congruential/_generator.py	M	LinearCongruentialGenerator.next_number		1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/other/magicdiamondpattern.py	F	floyd	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/other/magicdiamondpattern.py	F	reverse_floyd	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/other/magicdiamondpattern.py	F	pretty_print	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/other/majority/_vote/_algorithm.py	F	majority_vote	B	7
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/other/maximum/_subsequence.py	F	max_subsequence_sum	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/other/nested/_brackets.py	F	is_balanced	B	6
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/other/nested/_brackets.py	F	main	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/other/number/_container/_system.py	M	NumberContainer.binary_search_Delete		6
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/other/number/_container/_system.py	M	NumberContainer.binary_search_Insert		6
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/other/number/_container/_system.py	C	NumberContainer	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/other/number/_container/_system.py	M	NumberContainer.change	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/other/number/_container/_system.py	M	NumberContainer.__init__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/other/number/_container/_system.py	M	NumberContainer.find	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/other/password.py	F	is_strong_password	B	9

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D: /code\_assistant/Git\_repo/TheAlgorithms\\\_Python/other/password.py	F	password_generator	A	2
D: /code\_assistant/Git\_repo/TheAlgorithms\\\_Python/other/password.py	F	random	A	2
D: /code\_assistant/Git\_repo/TheAlgorithms\\\_Python/other/password.py	F	alternative_password_generator	A	1
D: /code\_assistant/Git\_repo/TheAlgorithms\\\_Python/other/password.py	F	main	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\\\_Python/other/scoring\_algorithm.py	F	calculate_each_score	B	8
D:/code\_assistant/Git\_repo/TheAlgorithms\\\_Python/other/scoring\_algorithm.py	F	get_data	A	4
D:/code\_assistant/Git\_repo/TheAlgorithms\\\_Python/other/scoring\_algorithm.py	F	generate_final_scores	A	4
D:/code\_assistant/Git\_repo/TheAlgorithms\\\_Python/other/scoring\_algorithm.py	F	procentual_proximity	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\\\_Python/other/sdes.py	F	xor	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\\\_Python/other/sdes.py	F	apply_table	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\\\_Python/other/sdes.py	F	left_shift	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\\\_Python/other/sdes.py	F	apply_sbox	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\\\_Python/other/sdes.py	F	function	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\\\_Python/other/tower\_of\_hanoi.py	F	move_tower	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\\\_Python/other/tower\_of\_hanoi.py	F	move_disk	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\\\_Python/other/tower\_of\_hanoi.py	F	main	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\\\_Python/other/word\_search.py	M	WordSearch.insert_northeast	B	9
D:/code\_assistant/Git\_repo/TheAlgorithms\\\_Python/other/word\_search.py	M	WordSearch.insert_southeast	B	9

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/other/word/_search.py	M	WordSearch.insert_southwest	B	9
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/other/word/_search.py	M	WordSearch.insert_northwest	B	9
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/other/word/_search.py	C	WordSearch	B	8
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/other/word/_search.py	M	WordSearch.insert_north	B	8
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/other/word/_search.py	M	WordSearch.insert_east	B	8
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/other/word/_search.py	M	WordSearch.insert_south	B	8
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/other/word/_search.py	M	WordSearch.insert_west	B	8
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/other/word/_search.py	F	visualise_word_search	B	6
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/other/word/_search.py	M	WordSearch.__init__	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/other/word/_search.py	M	WordSearch.generate_board	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/physics/altitude/_pressure.py	F	get_altitude_at_pressure	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/physics/archimedes/_principle/_of/_buoyant/_force.py	F	archimedes_principle	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/physics/basic/_orbital/_capture.py	F	capture_radii	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/physics/basic/_orbital/_capture.py	F	capture_area	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/physics/casimir/_effect.py	F	casimir_force	B	8
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/physics/center/_of/_mass.py	F	center_of_mass	B	8

（续下页）

文件	类型	符号 (函数/方法)	等级	分数
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/physics/centripetal\_force.py	F	centripetal	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/physics/coulombs\_law.py	F	coulombs\_law	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/physics/doppler\_frequency.py	F	doppler\_effect	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/physics/escape\_velocity.py	F	escape\_velocity	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/physics/grahams\_law.py	F	validate	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/physics/grahams\_law.py	F	effusion\_ratio	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/physics/grahams\_law.py	F	first\_effusion\_rate	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/physics/grahams\_law.py	F	second\_effusion\_rate	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/physics/grahams\_law.py	F	first\_molar\_mass	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/physics/grahams\_law.py	F	second\_molar\_mass	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/physics/horizontal\_projectile\_motion.py	F	check\_args	B	6
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/physics/horizontal\_projectile\_motion.py	F	test\_motion	A	4
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/physics/horizontal\_projectile\_motion.py	F	horizontal\_distance	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/physics/horizontal\_projectile\_motion.py	F	max\_height	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/physics/horizontal\_projectile\_motion.py	F	total\_time	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/physics/hubble\_parameter.py	F	hubble\_parameter	A	5
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/physics/ideal\_gas\_law.py	F	pressure\_of\_gas\_system	A	4

(续下页)

文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/physics/ideal\_gas\_law.py	F	volume_of_gas_system	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/physics/ideal\_gas\_law.py	F	temperature_of_gas_system	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/physics/ideal\_gas\_law.py	F	moles_of_gas_system	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/physics/in\_static\_equilibrium.py	F	polar_force	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/physics/in\_static\_equilibrium.py	F	in_static_equilibrium	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/physics/kinetic\_energy.py	F	kinetic_energy	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/physics/lens\_formulae.py	F	focal_length_of_lens	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/physics/lens\_formulae.py	F	object_distance	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/physics/lens\_formulae.py	F	image_distance	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/physics/lorentz\_transformation\_four\_vector.py	F	beta	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/physics/lorentz\_transformation\_four\_vector.py	F	transform	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/physics/lorentz\_transformation\_four\_vector.py	F	gamma	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/physics/lorentz\_transformation\_four\_vector.py	F	transformation_matrix	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/physics/malus\_law.py	F	malus_law	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/physics/mass\_energy\_equivalence.py	F	energy_from_mass	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/physics/mass\_energy\_equivalence.py	F	mass_from_energy	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/physics/mirror\_formulae.py	F	focal_length	A	3

（续下页）



文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/physics/mirror/_formulae.py	F	object_distance	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/physics/mirror/_formulae.py	F	image_distance	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/physics/newtons_law_of_gravitation.py	F	gravitational_law	B	10
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/physics/newtons_second_law_of_motion.py	F	newtons_second_law_of_motion	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/physics/n_body_simulation.py	M	BodySystem.update_system	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/physics/n_body_simulation.py	F	plot	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/physics/n_body_simulation.py	C	BodySystem	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/physics/n_body_simulation.py	F	update_step	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/physics/n_body_simulation.py	F	example_3	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/physics/n_body_simulation.py	C	Body	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/physics/n_body_simulation.py	F	example_1	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/physics/n_body_simulation.py	F	example_2	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/physics/n_body_simulation.py	M	Body.__init__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/physics/n_body_simulation.py	M	Body.position	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/physics/n_body_simulation.py	M	Body.velocity	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/physics/n_body_simulation.py	M	Body.update_velocity	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/physics/n_body_simulation.py	M	Body.update_position	A	1

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/physics/n\_body\_simulation.py	M	BodySystem.__init__	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/physics/n\_body\_simulation.py	M	BodySystem.__len__	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/physics/orbital\_transfer\_work.py	F	orbital_transfer_work	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/physics/period\_of\_pendulum.py	F	period_of_pendulum	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/physics/photoelectric\_effect.py	F	maximum_kinetic_energy	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/physics/potential\_energy.py	F	potential_energy	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/physics/rainfall\_intensity.py	F	rainfall_intensity	B	7
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/physics/reynolds\_number.py	F	reynolds_number	A	4
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/physics/rms\_speed\_of\_molecule.py	F	rms_speed_of_molecule	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/physics/shear\_stress.py	F	shear_stress	B	7
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/physics/speeds\_of\_gas\_molecules.py	F	avg_speed_of_molecule	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/physics/speeds\_of\_gas\_molecules.py	F	mps_speed_of_molecule	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/physics/speed\_of\_sound.py	F	speed_of_sound_in_a_fluid	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/physics/terminal\_velocity.py	F	terminal_velocity	A	5
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/project\_euler/problem\_001/sol1.py	F	solution	A	4
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/project\_euler/problem\_001/sol2.py	F	solution	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/project\_euler/problem\_001/sol3.py	F	solution	B	9

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/project\_euler/problem\_001/sol4.py	F	solution	A	5
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/project\_euler/problem\_001/sol5.py	F	solution	A	4
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/project\_euler/problem\_001/sol6.py	F	solution	A	5
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/project\_euler/problem\_001/sol7.py	F	solution	A	4
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/project\_euler/problem\_002/sol1.py	F	solution	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/project\_euler/problem\_002/sol2.py	F	solution	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/project\_euler/problem\_002/sol3.py	F	solution	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/project\_euler/problem\_002/sol4.py	F	solution	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/project\_euler/problem\_002/sol5.py	F	solution	A	5
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/project\_euler/problem\_003/sol1.py	F	solution	B	10
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/project\_euler/problem\_003/sol1.py	F	is_prime	B	8
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/project\_euler/problem\_003/sol2.py	F	solution	B	6
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/project\_euler/problem\_003/sol3.py	F	solution	B	7
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/project\_euler/problem\_004/sol1.py	F	solution	B	6
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/project\_euler/problem\_004/sol2.py	F	solution	A	5
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/project\_euler/problem\_005/sol1.py	F	solution	B	8
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/project\_euler/problem\_005/sol2.py	F	solution	A	2

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/project\_euler/problem\_005/sol2.py	F	lcm	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/project\_euler/problem\_006/sol1.py	F	solution	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/project\_euler/problem\_006/sol2.py	F	solution	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/project\_euler/problem\_006/sol3.py	F	solution	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/project\_euler/problem\_006/sol4.py	F	solution	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/project\_euler/problem\_007/sol1.py	F	is_prime	B	8
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/project\_euler/problem\_007/sol1.py	F	solution	B	6
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/project\_euler/problem\_007/sol2.py	F	is_prime	B	8
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/project\_euler/problem\_007/sol2.py	F	solution	A	5
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/project\_euler/problem\_007/sol3.py	F	is_prime	B	8
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/project\_euler/problem\_007/sol3.py	F	prime_generator	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/project\_euler/problem\_007/sol3.py	F	solution	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/project\_euler/problem\_008/sol1.py	F	solution	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/project\_euler/problem\_008/sol2.py	F	solution	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/project\_euler/problem\_008/sol3.py	F	solution	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/project\_euler/problem\_008/sol3.py	F	str_eval	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/project\_euler/problem\_009/sol1.py	F	solution	B	6

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/project\_euler/problem\_009/sol1.py	F	solution_fast	A	5
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/project\_euler/problem\_009/sol1.py	F	benchmark	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/project\_euler/problem\_009/sol2.py	F	solution	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/project\_euler/problem\_009/sol3.py	F	solution	A	4
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/project\_euler/problem\_009/sol4.py	F	solution	A	5
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/project\_euler/problem\_009/sol4.py	F	get_squares	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/project\_euler/problem\_010/sol1.py	F	is_prime	B	8
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/project\_euler/problem\_010/sol1.py	F	solution	A	4
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/project\_euler/problem\_010/sol2.py	F	is_prime	B	8
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/project\_euler/problem\_010/sol2.py	F	prime_generator	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/project\_euler/problem\_010/sol2.py	F	solution	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/project\_euler/problem\_010/sol3.py	F	solution	B	7
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/project\_euler/problem\_011/sol1.py	F	largest_product	A	5
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/project\_euler/problem\_011/sol1.py	F	solution	A	4
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/project\_euler/problem\_011/sol2.py	F	solution	C	11
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/project\_euler/problem\_012/sol1.py	F	count_divisors	A	4
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/project\_euler/problem\_012/sol1.py	F	solution	A	3

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/project\_euler/problem\_012/sol2.py	F	count_divisors	A	4
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/project\_euler/problem\_012/sol2.py	F	solution	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/project\_euler/problem\_012/sol2.py	F	triangle_number_generator	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/project\_euler/problem\_013/sol1.py	F	solution	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/project\_euler/problem\_014/sol1.py	F	solution	B	7
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/project\_euler/problem\_014/sol2.py	F	collatz_sequence_length	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/project\_euler/problem\_014/sol2.py	F	solution	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/project\_euler/problem\_015/sol1.py	F	solution	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/project\_euler/problem\_016/sol1.py	F	solution	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/project\_euler/problem\_016/sol2.py	F	solution	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/project\_euler/problem\_017/sol1.py	F	solution	B	6
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/project\_euler/problem\_018/solution.py	F	solution	B	7
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/project\_euler/problem\_019/sol1.py	F	solution	C	13
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/project\_euler/problem\_020/sol1.py	F	factorial	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/project\_euler/problem\_020/sol1.py	F	split_and_add	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/project\_euler/problem\_020/sol1.py	F	solution	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/project\_euler/problem\_020/sol2.py	F	solution	A	2

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem_020/sol3.py	F	solution	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem_020/sol4.py	F	solution	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem_021/sol1.py	F	sum_of_divisors	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem_021/sol1.py	F	solution	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem_022/sol1.py	F	solution	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem_022/sol2.py	F	solution	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem_023/sol1.py	F	solution	B	7
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem_024/sol1.py	F	solution	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem_025/sol1.py	F	fibonacci	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem_025/sol1.py	F	fibonacci_digits_index	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem_025/sol1.py	F	solution	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem_025/sol2.py	F	fibonacci_generator	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem_025/sol2.py	F	solution	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem_025/sol3.py	F	solution	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem_026/sol1.py	F	solution	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem_027/sol1.py	F	is_prime	B	8
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem_027/sol1.py	F	solution	B	6

（续下页）

文件	类型	符号 (函数/方法)	等级	分数
D:/code\_assistant/Git\_repo/TheAlgorithms\\\_Python/project\_euler/problem\_028/sol1.py	F	solution	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\\\_Python/project\_euler/problem\_029/sol1.py	F	solution	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\\\_Python/project\_euler/problem\_030/sol1.py	F	solution	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\\\_Python/project\_euler/problem\_030/sol1.py	F	digits_fifth_powers_sum	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\\\_Python/project\_euler/problem\_031/sol1.py	F	two_pence	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\\\_Python/project\_euler/problem\_031/sol1.py	F	five_pence	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\\\_Python/project\_euler/problem\_031/sol1.py	F	ten_pence	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\\\_Python/project\_euler/problem\_031/sol1.py	F	twenty_pence	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\\\_Python/project\_euler/problem\_031/sol1.py	F	fifty_pence	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\\\_Python/project\_euler/problem\_031/sol1.py	F	one_pound	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\\\_Python/project\_euler/problem\_031/sol1.py	F	two_pound	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\\\_Python/project\_euler/problem\_031/sol1.py	F	one_pence	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\\\_Python/project\_euler/problem\_031/sol1.py	F	solution	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\\\_Python/project\_euler/problem\_031/sol2.py	F	solution	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\\\_Python/project\_euler/problem\_032/sol32.py	F	solution	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\\\_Python/project\_euler/problem\_032/sol32.py	F	is_combination_valid	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\\\_Python/project\_euler/problem\_033/sol1.py	F	fraction_list	B	7

(续下页)



文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem_033/sol1.py	F	is_digit_cancelling	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem_033/sol1.py	F	solution	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem_034/sol1.py	F	solution	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem_034/sol1.py	F	sum_of_digit_factorial	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem_035/sol1.py	F	find_circular_primes	B	7
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem_035/sol1.py	F	contains_an_even_digit	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem_035/sol1.py	F	is_prime	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem_035/sol1.py	F	solution	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem_036/sol1.py	F	solution	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem_036/sol1.py	F	is_palindrome	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem_037/sol1.py	F	is_prime	B	8
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem_037/sol1.py	F	compute_truncated_primes	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem_037/sol1.py	F	validate	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem_037/sol1.py	F	list_truncated_nums	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem_037/sol1.py	F	solution	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem_038/sol1.py	F	solution	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem_038/sol1.py	F	is_9_pandigital	A	2

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem/_039/sol1.py	F	pythagorean_triple	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem/_039/sol1.py	F	solution	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem/_040/sol1.py	F	solution	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem/_041/sol1.py	F	is_prime	B	8
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem/_041/sol1.py	F	solution	B	6
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem/_042/solution42.py	F	solution	B	6
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem/_043/sol1.py	F	is_substring_divisible	B	6
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem/_043/sol1.py	F	solution	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem/_044/sol1.py	F	solution	B	6
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem/_044/sol1.py	F	is_pentagonal	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem/_045/sol1.py	F	solution	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem/_045/sol1.py	F	hexagonal_num	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem/_045/sol1.py	F	is_pentagonal	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem/_046/sol1.py	F	is_prime	B	8
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem/_046/sol1.py	F	compute_nums	B	8
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem/_046/sol1.py	F	solution	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem/_047/sol1.py	F	run	A	5

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/project\_euler/problem\_047/sol1.py	F	unique_prime_factors	A	4
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/project\_euler/problem\_047/sol1.py	F	solution	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/project\_euler/problem\_047/sol1.py	F	upf_len	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/project\_euler/problem\_047/sol1.py	F	equality	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/project\_euler/problem\_048/sol1.py	F	solution	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/project\_euler/problem\_049/sol1.py	F	solution	C	20
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/project\_euler/problem\_049/sol1.py	F	is_prime	B	8
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/project\_euler/problem\_049/sol1.py	F	search	A	4
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/project\_euler/problem\_050/sol1.py	F	prime_sieve	A	5
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/project\_euler/problem\_050/sol1.py	F	solution	A	5
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/project\_euler/problem\_051/sol1.py	F	solution	B	7
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/project\_euler/problem\_051/sol1.py	F	prime_sieve	A	5
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/project\_euler/problem\_051/sol1.py	F	digit_replacements	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/project\_euler/problem\_052/sol1.py	F	solution	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/project\_euler/problem\_053/sol1.py	F	solution	A	4
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/project\_euler/problem\_053/sol1.py	F	combinations	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\_Python/project\_euler/problem\_054/sol1.py	M	PokerHand._is_same_kind	B	10

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem_054/sol1.py	M	PokerHand.compare_with	B	7
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem_054/sol1.py	M	PokerHand._get_hand_type	B	7
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem_054/sol1.py	M	PokerHand.hand_name	B	6
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem_054/sol1.py	C	PokerHand	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem_054/sol1.py	M	PokerHand._compare_cards	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem_054/sol1.py	F	solution	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem_054/sol1.py	M	PokerHand.__init__	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem_054/sol1.py	M	PokerHand._is_five_high_straight	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem_054/sol1.py	M	PokerHand._is_straight	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem_054/sol1.py	M	PokerHand._internal_state	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem_054/sol1.py	M	PokerHand.__le__	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem_054/sol1.py	M	PokerHand.__gt__	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem_054/sol1.py	M	PokerHand.__eq__	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem_054/sol1.py	M	PokerHand.__lt__	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem_054/sol1.py	M	PokerHand.__ge__	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem_054/sol1.py	M	PokerHand.hand	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem_054/sol1.py	M	PokerHand._is_flush	A	1

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem/_054/sol1.py	M	PokerHand.__repr__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem/_054/sol1.py	M	PokerHand.__str__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem/_054/sol1.py	M	PokerHand.__hash__	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem/_054/test_poker_hand.py	F	test_hand_sorted	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem/_054/test_poker_hand.py	F	test_multiple_calls_five_high_straight	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem/_054/test_poker_hand.py	F	test_euler_project	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem/_054/test_poker_hand.py	F	test_hand_is_five_high_straight	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem/_054/test_poker_hand.py	F	generate_random_hands	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem/_054/test_poker_hand.py	F	test_hand_is_flush	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem/_054/test_poker_hand.py	F	test_hand_is_straight	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem/_054/test_poker_hand.py	F	test_hand_is_same_kind	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem/_054/test_poker_hand.py	F	test_hand_values	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem/_054/test_poker_hand.py	F	test_compare_simple	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem/_054/test_poker_hand.py	F	test_compare_random	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem/_054/test_poker_hand.py	F	test_custom_sort_five_high_straight	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem/_054/test_poker_hand.py	F	generate_random_hand	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem/_055/sol1.py	F	solution	A	5

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem_055/sol1.py	F	is_palindrome	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem_055/sol1.py	F	sum_reverse	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem_056/sol1.py	F	solution	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem_057/sol1.py	F	solution	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem_058/sol1.py	F	is_prime	B	8
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem_058/sol1.py	F	solution	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem_059/sol1.py	F	solution	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem_059/sol1.py	F	try_key	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem_059/sol1.py	F	filter_valid_chars	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem_059/sol1.py	F	filter_common_word	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem_062/sol1.py	F	solution	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem_062/sol1.py	F	get_digits	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem_063/sol1.py	F	solution	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem_064/sol1.py	F	solution	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem_064/sol1.py	F	continuous_fraction_period	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem_065/sol1.py	F	solution	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem_065/sol1.py	F	sum_digits	A	2

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code\_assistant/Git\_repo/TheAlgorithms\\_Python/project\_euler/problem\_067/sol1.py	F	solution	B	7
D:/code\_assistant/Git\_repo/TheAlgorithms\\_Python/project\_euler/problem\_067/sol2.py	F	solution	A	5
D:/code\_assistant/Git\_repo/TheAlgorithms\\_Python/project\_euler/problem\_068/sol1.py	F	solution	B	6
D:/code\_assistant/Git\_repo/TheAlgorithms\\_Python/project\_euler/problem\_068/sol1.py	F	is_magic_gon	A	4
D:/code\_assistant/Git\_repo/TheAlgorithms\\_Python/project\_euler/problem\_068/sol1.py	F	generate_gon_ring	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\\_Python/project\_euler/problem\_069/sol1.py	F	solution	B	7
D:/code\_assistant/Git\_repo/TheAlgorithms\\_Python/project\_euler/problem\_070/sol1.py	F	solution	A	4
D:/code\_assistant/Git\_repo/TheAlgorithms\\_Python/project\_euler/problem\_070/sol1.py	F	get_totients	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\\_Python/project\_euler/problem\_070/sol1.py	F	has_same_digits	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\\_Python/project\_euler/problem\_071/sol1.py	F	solution	A	4
D:/code\_assistant/Git\_repo/TheAlgorithms\\_Python/project\_euler/problem\_072/sol1.py	F	solution	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\\_Python/project\_euler/problem\_072/sol2.py	F	solution	B	6
D:/code\_assistant/Git\_repo/TheAlgorithms\\_Python/project\_euler/problem\_073/sol1.py	F	solution	A	5
D:/code\_assistant/Git\_repo/TheAlgorithms\\_Python/project\_euler/problem\_074/sol1.py	F	chain_length	A	4
D:/code\_assistant/Git\_repo/TheAlgorithms\\_Python/project\_euler/problem\_074/sol1.py	F	sum_digit_factorials	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\\_Python/project\_euler/problem\_074/sol1.py	F	solution	A	3
D:/code\_assistant/Git\_repo/TheAlgorithms\\_Python/project\_euler/problem\_074/sol2.py	F	solution	C	11

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem/_074/sol2.py	F	digit_factorial_sum	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem/_075/sol1.py	F	solution	B	7
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem/_076/sol1.py	F	solution	B	7
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem/_077/sol1.py	F	partition	B	6
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem/_077/sol1.py	F	solution	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem/_078/sol1.py	F	solution	B	7
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem/_079/sol1.py	F	find_secret_passcode	B	8
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem/_079/sol1.py	F	solution	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem/_080/sol1.py	F	solution	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem/_081/sol1.py	F	solution	C	11
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem/_082/sol1.py	F	solution	C	11
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem/_085/sol1.py	F	solution	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem/_086/sol1.py	F	solution	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem/_087/sol1.py	F	solution	B	8
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem/_089/sol1.py	F	generate_roman_numerals	B	10
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem/_089/sol1.py	F	parse_roman_numerals	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem/_089/sol1.py	F	solution	A	2

（续下页）



文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem/_091/sol1.py	F	is_right	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem/_091/sol1.py	F	solution	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem/_092/sol1.py	F	chain	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem/_092/sol1.py	F	solution	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem/_092/sol1.py	F	next_number	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem/_094/sol1.py	F	solution	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem/_095/sol1.py	F	find_longest_chain	B	7
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem/_095/sol1.py	F	generate_primes	B	6
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem/_095/sol1.py	F	multiply	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem/_095/sol1.py	F	solution	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem/_097/sol1.py	F	solution	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem/_099/sol1.py	F	solution	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem/_100/sol1.py	F	solution	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem/_101/sol1.py	F	solve	C	15
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem/_101/sol1.py	F	interpolate	B	6
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem/_101/sol1.py	F	solution	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem/_101/sol1.py	F	question_function	A	1

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem/_102/sol1.py	F	solution	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem/_102/sol1.py	F	contains_origin	A	3
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem/_102/sol1.py	F	vector_product	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem/_104/sol1.py	F	check	B	8
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem/_104/sol1.py	F	solution	B	6
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem/_104/sol1.py	F	check1	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem/_107/sol1.py	F	solution	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem/_107/sol1.py	M	Graph.prim's_algorithm	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem/_107/sol1.py	C	Graph	A	4
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem/_107/sol1.py	M	Graph.__init__	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem/_107/sol1.py	M	Graph.add_edge	A	1
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem/_109/sol1.py	F	solution	B	6
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem/_112/sol1.py	F	solution	A	5
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem/_112/sol1.py	F	check_bouncy	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem/_113/sol1.py	F	choose	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem/_113/sol1.py	F	non_bouncy_upto	A	2
D:/code/_assistant/Git/_repo/TheAlgorithms/_Python/project_euler/problem/_113/sol1.py	F	non_bouncy_exact	A	1

（续下页）

文件	类型	符号（函数/方法）	等级	分数
D:/code\_assistant/Git\_repo/TheAlgorithms\\_Python/project\_euler/problem\_113/sol1.py	F	solution	A	1
D:/code\_assistant/Git\_repo/TheAlgorithms\\_Python/project\_euler/problem\_114/sol1.py	F	solution	A	4
D:/code\_assistant/Git\_repo/TheAlgorithms\\_Python/project\_euler/problem\_115/sol1.py	F	solution	A	5
D:/code\_assistant/Git\_repo/TheAlgorithms\\_Python/project\_euler/problem\_116/sol1.py	F	solution	A	5
D:/code\_assistant/Git\_repo/TheAlgorithms\\_Python/project\_euler/problem\_117/sol1.py	F	solution	A	4
D:/code\_assistant/Git\_repo/TheAlgorithms\\_Python/project\_euler/problem\_119/sol1.py	F	solution	A	4
D:/code\_assistant/Git\_repo/TheAlgorithms\\_Python/project\_euler/problem\_119/sol1.py	F	digit_sum	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\\_Python/project\_euler/problem\_120/sol1.py	F	solution	A	2
D:/code\_assistant/Git\_repo/TheAlgorithms\\_Python/project\_euler/problem\_121/sol1.py	F	solution	A	5
D:/code\_assistant/Git\_repo/TheAlgorithms\\_Python/project\_euler/problem\_122/sol1.py	F	solve	A	5
D:/code\_assistant/Git\_repo/TheAlgorithms\\_Python/project\_euler/problem\_122/sol1.py	F	solution	A	4
D:/code\_assistant/Git\_repo/TheAlgorithms\\_Python/project\_euler/problem\_123/sol1.py	F	sieve	A	4
D:/code\_assistant/Git\_repo/TheAlgorithms\\_Python/project\_euler/problem\_123/sol1.py	F	solution	A	3

## 2 测试生成（TestGen）

### 2.1 指标

- 写入测试文件数：93
- 覆盖函数数：200
- 输出目录：D:/code\\_assistant/Git\\_repo/TheAlgorithms\\\_Python/reports/TheAlgorithms\\\_Python/generated\\_tests

2.2 覆盖率报告

Name	Stmts	Miss	Cover	Missing
N/A	0	0	0%	