[\*] Start mutation process:

- targets: source\_to\_mutate

- tests: test\_generated\_mutants

[\*] 31 tests passed:

- test\_generated\_mutants [0.10083 s]

[\*] Start mutants generation and execution:

- [# 1] COI source\_to\_mutate: [0.10418 s] killed by test\_generated\_mutants.py::test\_valid\_date\_valid\_date

- [# 2] COI source\_to\_mutate: [0.06725 s] killed by test\_generated\_mutants.py::test\_valid\_date\_valid\_date

- [# 3] COI source\_to\_mutate: [0.08387 s] survived

- [# 4] COI source\_to\_mutate: [0.06648 s] killed by test\_generated\_mutants.py::test\_valid\_date\_valid\_date

- [# 5] COI source\_to\_mutate: [0.06786 s] killed by test\_generated\_mutants.py::test\_valid\_date\_invalid\_date\_day\_zero

- [# 6] COI source\_to\_mutate: [0.06700 s] killed by test\_generated\_mutants.py::test\_valid\_date\_valid\_date

- [# 7] EHD source\_to\_mutate: [0.06668 s] killed by test\_generated\_mutants.py::test\_valid\_date\_invalid\_date\_wrong\_separator

- [# 8] EXS source\_to\_mutate: [0.08309 s] killed by test\_generated\_mutants.py::test\_valid\_date\_invalid\_date\_wrong\_separator

- [# 9] LCR source\_to\_mutate: [0.07719 s] killed by test\_generated\_mutants.py::test\_valid\_date\_invalid\_date\_day\_out\_of\_range

- [# 10] LCR source\_to\_mutate: [0.07647 s] survived

- [# 11] LCR source\_to\_mutate: [0.08325 s] killed by test\_generated\_mutants.py::test\_valid\_date\_valid\_date

- [# 12] LCR source\_to\_mutate: [0.06654 s] killed by test\_generated\_mutants.py::test\_valid\_date\_invalid\_date\_day\_zero

- [# 13] LCR source\_to\_mutate: [0.08535 s] killed by test\_generated\_mutants.py::test\_valid\_date\_valid\_date\_single\_digit\_day

- [# 14] LCR source\_to\_mutate: [0.06685 s] killed by test\_generated\_mutants.py::test\_valid\_date\_february\_day\_30

- [# 15] LCR source\_to\_mutate: [0.08337 s] killed by test\_generated\_mutants.py::test\_valid\_date\_february\_leap\_year

- [# 16] ROR source\_to\_mutate: [0.05893 s] killed by test\_generated\_mutants.py::test\_valid\_date\_valid\_date

- [# 17] ROR source\_to\_mutate: [0.08635 s] survived

- [# 18] ROR source\_to\_mutate: [0.06395 s] killed by test\_generated\_mutants.py::test\_valid\_date\_valid\_date

- [# 19] ROR source\_to\_mutate: [0.07952 s] survived

- [# 20] ROR source\_to\_mutate: [0.08146 s] killed by test\_generated\_mutants.py::test\_valid\_date\_valid\_date

- [# 21] ROR source\_to\_mutate: [0.07924 s] killed by test\_generated\_mutants.py::test\_valid\_date\_single\_digit\_day\_and\_month

- [# 22] ROR source\_to\_mutate: [0.06411 s] killed by test\_generated\_mutants.py::test\_valid\_date\_valid\_date

- [# 23] ROR source\_to\_mutate: [0.08586 s] survived

- [# 24] ROR source\_to\_mutate: [0.06134 s] killed by test\_generated\_mutants.py::test\_valid\_date\_invalid\_date\_day\_zero

- [# 25] ROR source\_to\_mutate: [0.07949 s] survived

- [# 26] ROR source\_to\_mutate: [0.06392 s] killed by test\_generated\_mutants.py::test\_valid\_date\_valid\_date

- [# 27] ROR source\_to\_mutate: [0.07915 s] survived

- [# 28] ROR source\_to\_mutate: [0.08038 s] survived

- [# 29] ROR source\_to\_mutate: [0.06600 s] killed by test\_generated\_mutants.py::test\_valid\_date\_february\_leap\_year

- [# 30] ROR source\_to\_mutate: [0.08315 s] survived

- [# 31] ROR source\_to\_mutate: [0.06366 s] killed by test\_generated\_mutants.py::test\_valid\_date\_valid\_date

- [# 32] ROR source\_to\_mutate: [0.06407 s] killed by test\_generated\_mutants.py::test\_valid\_date\_february\_leap\_year

[\*] Mutation score [2.59539 s]: 71.9%

- all: 32

- killed: 23 (71.9%)

- survived: 9 (28.1%)

- incompetent: 0 (0.0%)

- timeout: 0 (0.0%)

[SUCCESS] Initial tests passed. Now calculating coverage and mutation score.

--- Step 4: Calculating test coverage ---

[INFO] Running coverage for target: mutation\_output\source\_to\_mutate.py, tests: mutation\_output\test\_generated\_mutants.py

Name Stmts Miss Branch BrPart Cover Missing

-----------------------------------------------------------------

source\_to\_mutate.py 16 1 8 1 92% 28

-----------------------------------------------------------------

TOTAL 16 1 8 1 92%

--- Step 5: Final Results ---

[INFO] Test Coverage: 92%

[INFO] Mutation Score: 71.90%

--- Analysis Finished ---