[\*] 22 tests passed:

- test\_generated\_mutants [0.13652 s]

[\*] Start mutants generation and execution:

- [# 1] AOR source\_to\_mutate: [0.09331 s] survived

- [# 2] AOR source\_to\_mutate: [0.18082 s] killed by test\_generated\_mutants.py::test\_empty\_string\_empty\_substring

- [# 3] AOR source\_to\_mutate: [0.08766 s] killed by test\_generated\_mutants.py::test\_substring\_equals\_string

- [# 4] ASR source\_to\_mutate: [0.08738 s] killed by test\_generated\_mutants.py::test\_empty\_string\_empty\_substring

- [# 5] COI source\_to\_mutate: [0.08651 s] killed by test\_generated\_mutants.py::test\_empty\_string\_empty\_substring

- [# 6] ROR source\_to\_mutate: [0.08202 s] killed by test\_generated\_mutants.py::test\_empty\_string\_empty\_substring

- [# 7] SIR source\_to\_mutate: [0.00000 s] incompetent

- [# 8] SIR source\_to\_mutate: [0.00000 s] incompetent

[\*] Mutation score [0.79621 s]: 83.3%

- all: 8

- killed: 5 (62.5%)

- survived: 1 (12.5%)

- incompetent: 2 (25.0%)

- 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 6 0 4 0 100%

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

TOTAL 6 0 4 0 100%

--- Step 5: Final Results ---

[INFO] Test Coverage: 100%

[INFO] Mutation Score: 83.30%

--- Analysis Finished ---

Process completed. Final test code is available in the output directory.