**Part 1, Step 1: Mutation analysis**

1. Original:

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| --- | --- |
| Live Mutants # | 16 |
| Killed Mutants # | 148 |
| Total Mutants # | 164 |
| Mutant Score | 90.0% |

1. Added tests
2. testTwoSegmentsDiffMoreThan500SecondLarger(),

killed mutant is AOIU\_4.

1. testTwoSegmentsSumMoreThan500(),

killed mutant is AORB\_4

1. testTwoSegmentsDepartureMoreThan14DaysFromNowVeryLongTime(),

killed mutant is AORB\_43

1. testTwoSegmentsDepartureLessThan3DaysFromNowIsFreqFlierV1(),

killed mutants are AORB\_62, AORB\_63, AORB\_65

1. testInvalidPrice1V1(),

killed mutant is COR\_1

1. testInvalidPrice1Price2()

killed mutant is COR\_2

1. testInvalidPrice1AndDepartureTime()

killed mutant is COR\_4

1. testInvalidPrice1AndDuration()

killed mutant is COR\_6