```
First-Order Attack

Attack(
  (search_method): GreedyWordSwapWIR(
    (wir_method):  unk
  )
  (goal_function):  UntargetedClassification
  (transformation):  WordSwapWordNet
  (constraints):
    (0): GPT2(
        (max_log_prob_decrease): 2.0
        (compare_against_original):  True
      )
    (1): [Constraint](
        (threshold):  [ε]
        (compare_against_original):  True
      )
    (2): RepeatModification
    (3): StopwordModification
    (4): InputColumnModification(
        (matching_column_labels):
            ['premise', 'hypothesis']
        (columns_to_ignore):  {'premise'}
      )
  (is_black_box):  True
)
```

```
Second-Order Attack

Attack(
  (search_method): BeamSearch(
    (beam_width):  2
  )
  (goal_function): FoolConstraintGoalFunction(
      (constraint): [Constraint]
      (min_acceptable_score): [ε]
      (num_words_to_swap): [γ]
  )
  (transformation):  WordSwapWordNetAntonym
  (constraints):
    (0): GPT2(
        (max_log_prob_diff): 2.0
        (compare_against_original):  True
      )
    (1): RepeatModification
    (2): StopwordModification
    (3): InputColumnModification(
        (matching_column_labels):
            ['premise', 'hypothesis']
        (columns_to_ignore):  {'premise'}
      )
  (is_black_box):  True
)
```