After experimenting with *penalize_extend_when_opening* and *penalize_end_gaps*, I still got the same global alignment score of 1810 when the parameter is set to dx.

When the parameter is set to ds, with both open and extend gap penalties equal to -4, then:

- 1. When *penalize_extend_when_opening* = True and *penalize_end_gaps* = (False, False), the score = 10
- 2. When penalize_extend_when_opening = True and penalize_end_gaps = (True, True), the score = -780
- 3. When penalize_extend_when_opening = True and penalize_end_gaps = (True, False), the score = -775
- 4. When penalize_extend_when_opening = True and penalize_end_gaps = (False, True), the score = -186
- 5. When penalize_extend_when_opening = False and penalize_end_gaps = (False, False), the score = 108
- 6. When penalize_extend_when_opening = False and penalize_end_gaps = (True, True), the score = -241
- 7. When penalize_extend_when_opening = False and penalize_end_gaps = (True, False), the score = -240
- 8. When penalize_extend_when_opening = False and penalize_end_gaps = (False, True), the score = 104