1 COMPUTATIONAL TIME COMPLEXITY
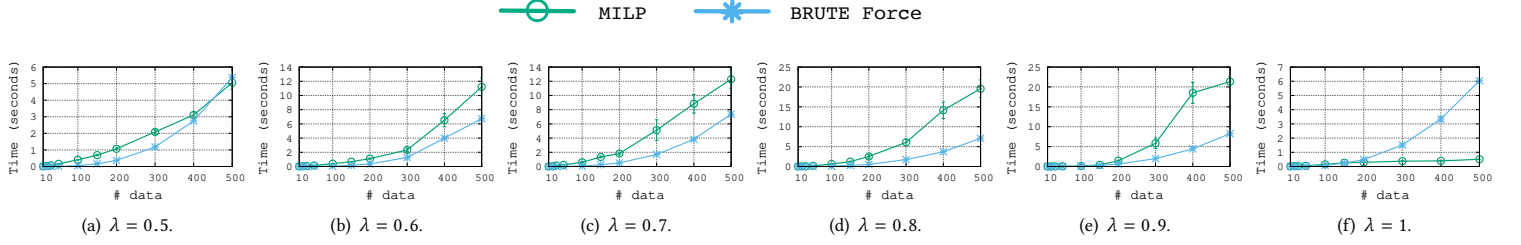
1.1 Time vs. #Data

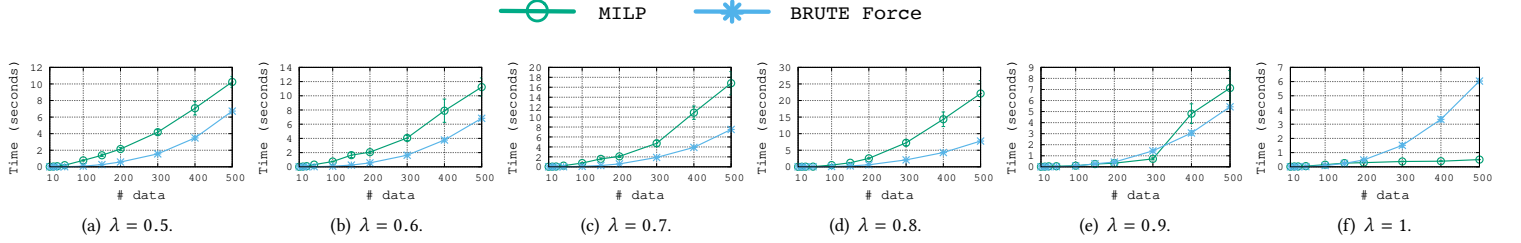Figure 1: Time complexity with 1 relevant token.

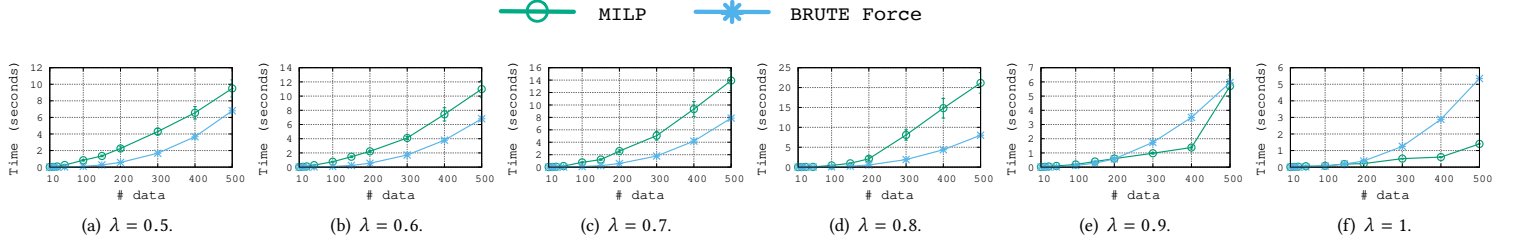Figure 2: Time complexity with 2 relevant token.

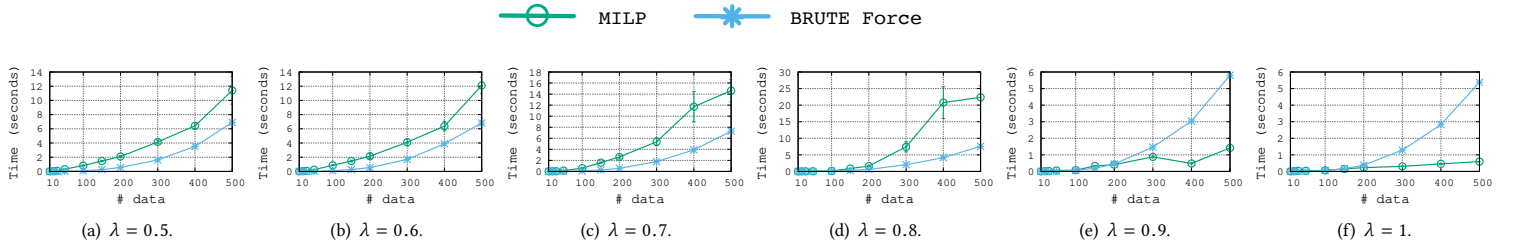Figure 3: Time complexity with 3 relevant token.

Figure 4: Time complexity with 4 relevant token.
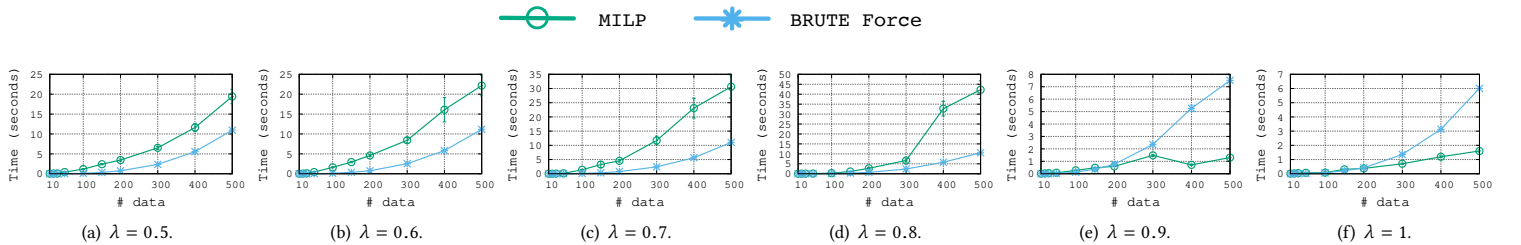

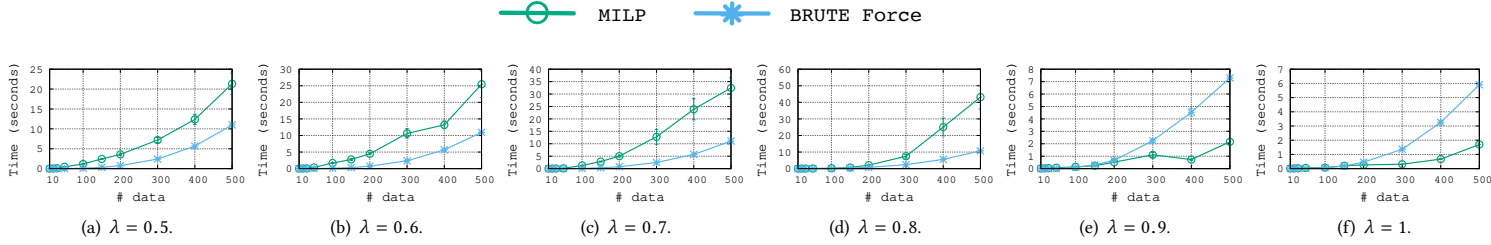Figure 5: Time complexity with 5 relevant token.

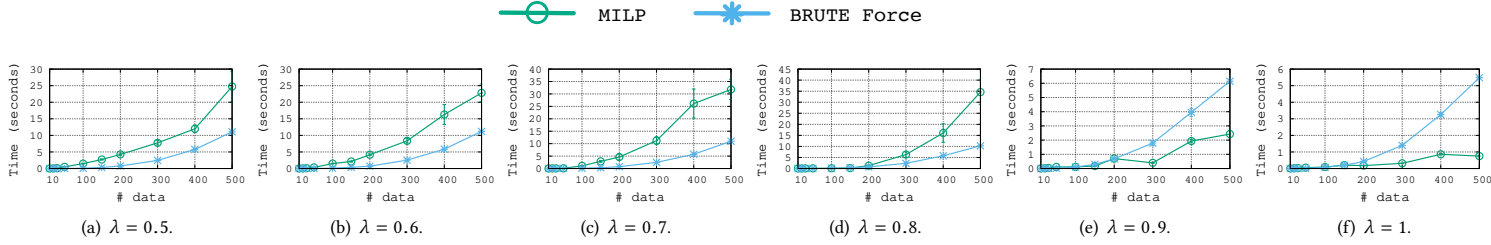Figure 6: Time complexity with 6 relevant token.

Figure 7: Time complexity with 7 relevant token.
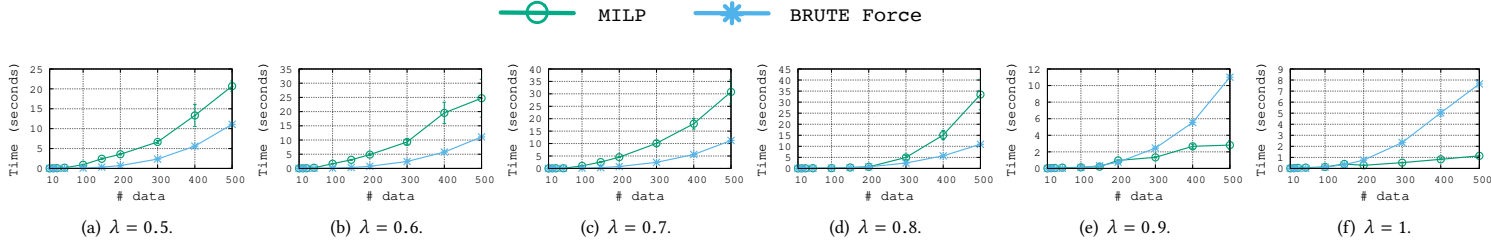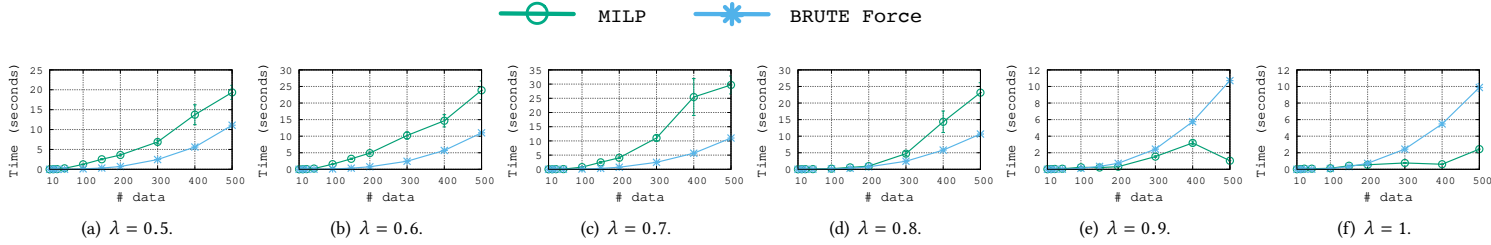

Figure 8: Time complexity with 8 relevant token.
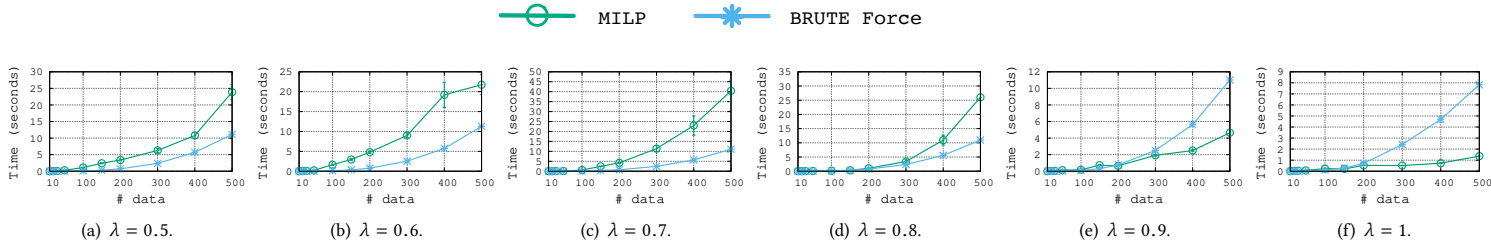

Figure 9: Time complexity with 9 relevant token.

Figure 10: Time complexity with 10 relevant token.
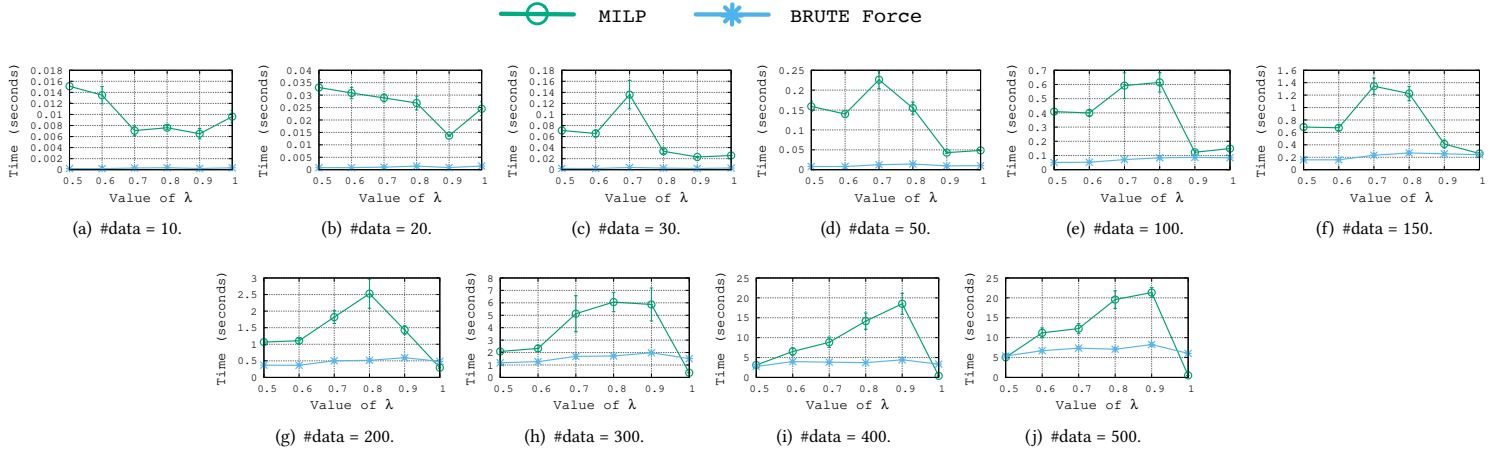
1.2 Time vs. λ

Figure 11: Time complexity with 1 relevant token.

Figure 12: Time complexity with 2 relevant token.

Figure 13: Time complexity with 3 relevant token.

(a) #data = 10. (b) #data = 20. (c) #data = 30. (d) #data = 50. (e) #data = 100. (f) #data = 150.

(g) #data = 200. (h) #data = 300. (i) #data = 400. (j) #data = 500.

Figure 14: Time complexity with 4 relevant token.

(a) #data = 10. (b) #data = 20. (c) #data = 30. (d) #data = 50. (e) #data = 100. (f) #data = 150.

(g) #data = 200. (h) #data = 300. (i) #data = 400. (j) #data = 500.

Figure 15: Time complexity with 5 relevant token.

(a) #data = 10. (b) #data = 20. (c) #data = 30. (d) #data = 50. (e) #data = 100. (f) #data = 150.

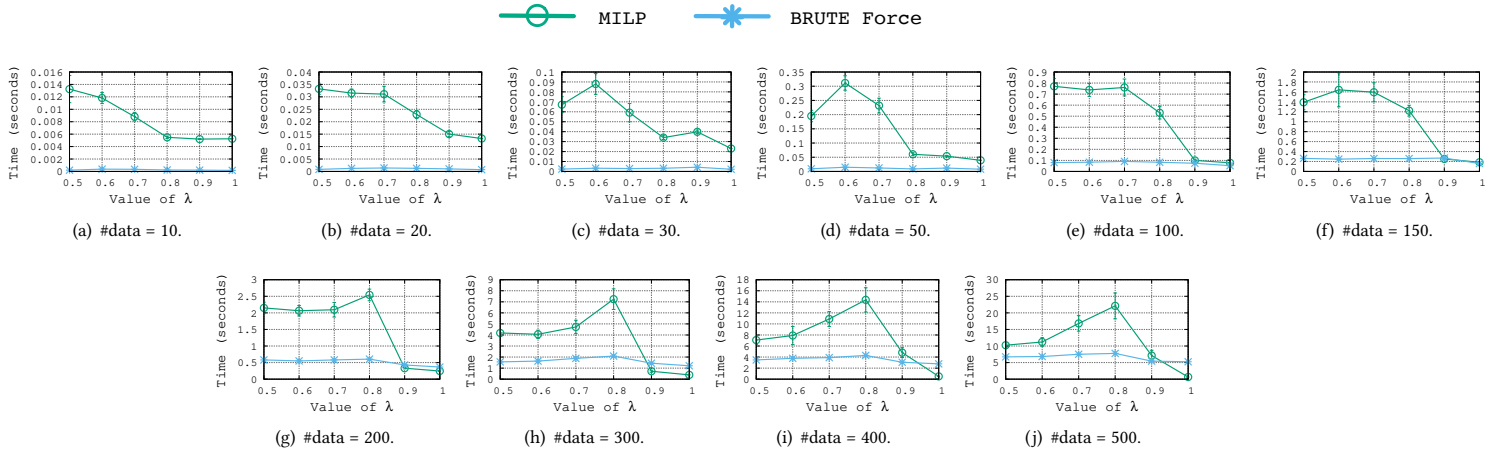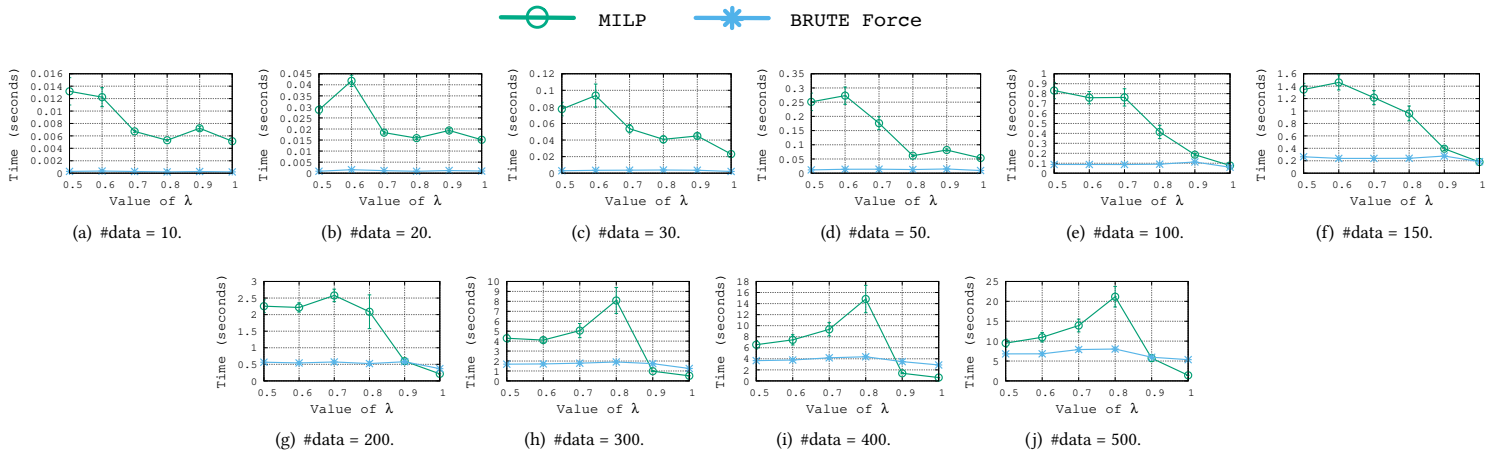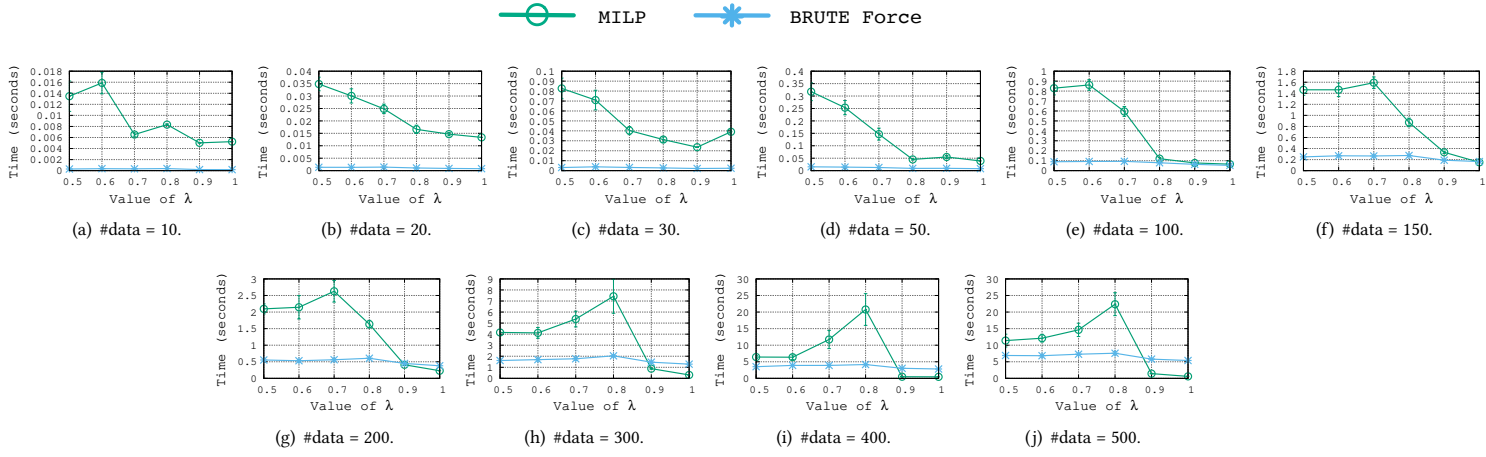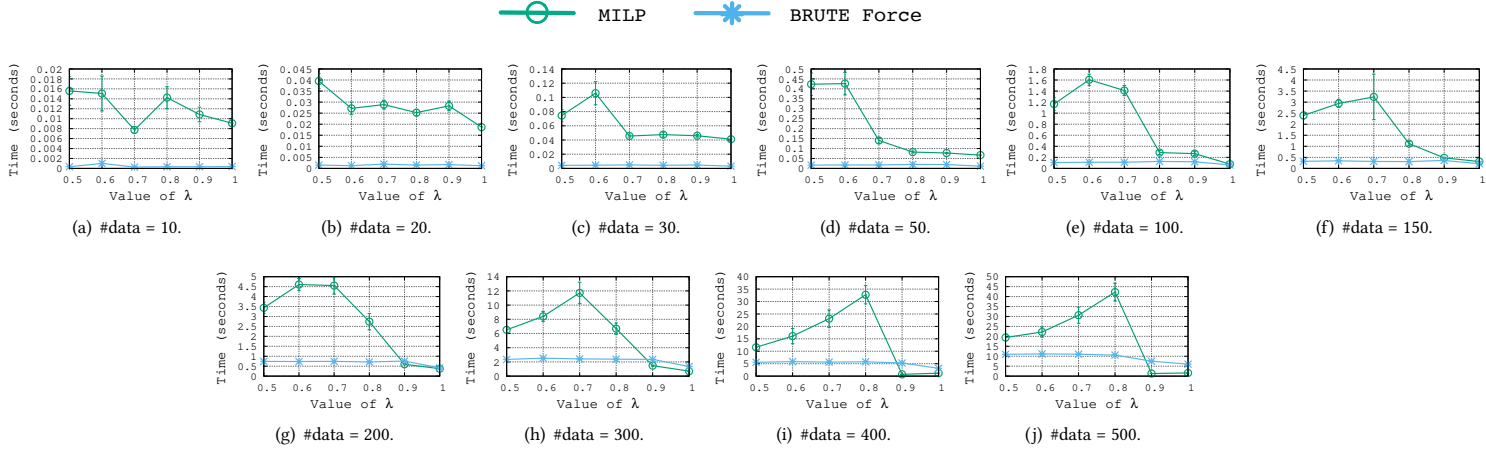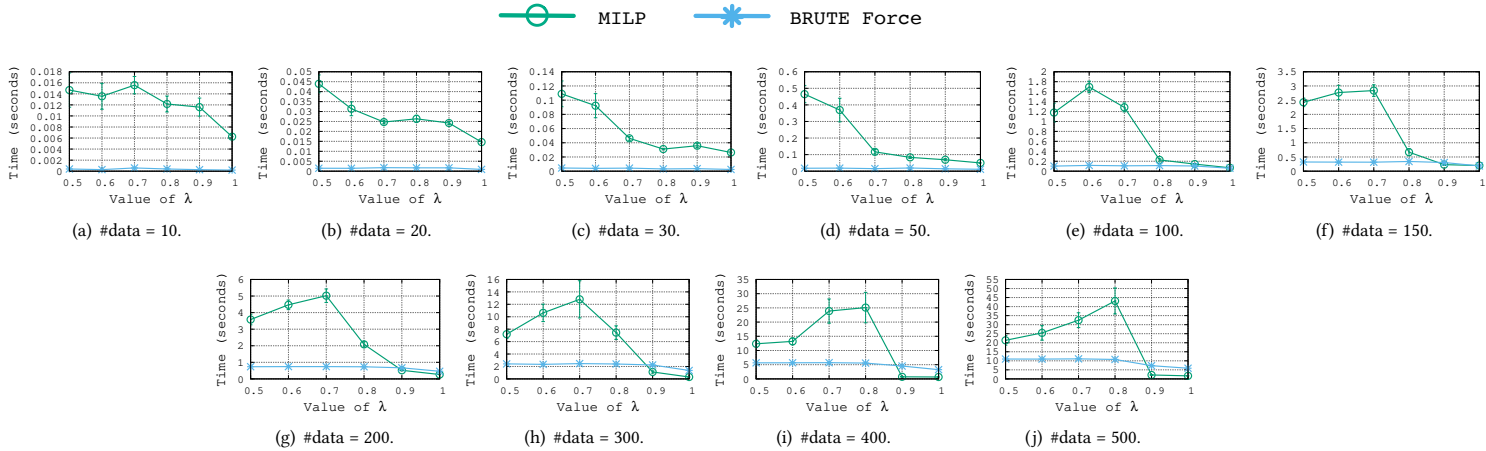(g) #data = 200. (h) #data = 300. (i) #data = 400. (j) #data = 500.

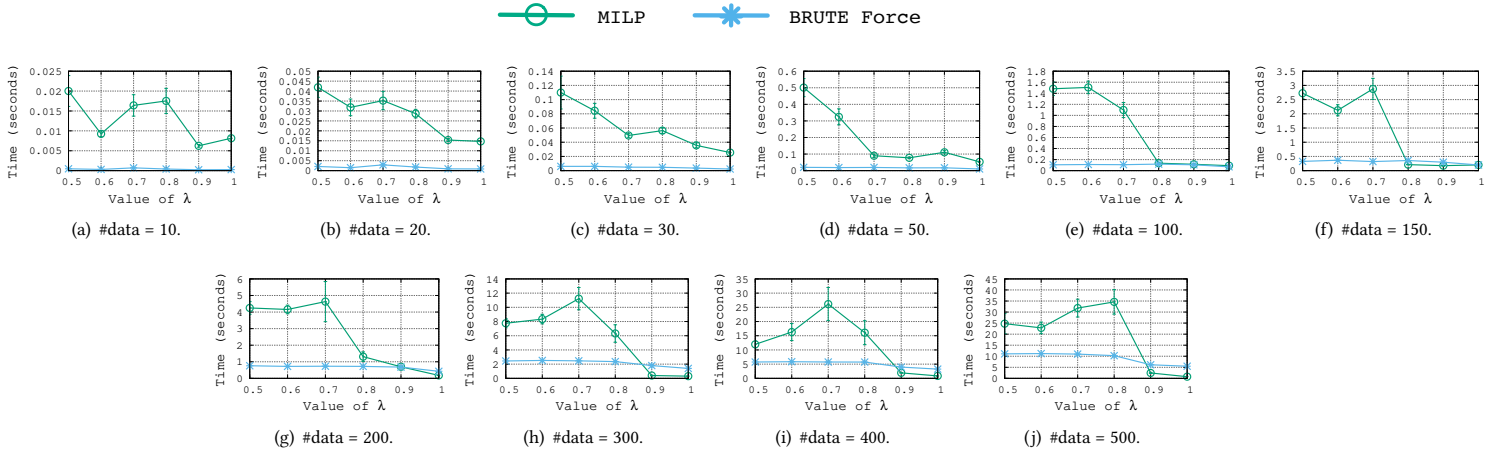Figure 16: Time complexity with 6 relevant token.

Figure 17: Time complexity with 7 relevant token.

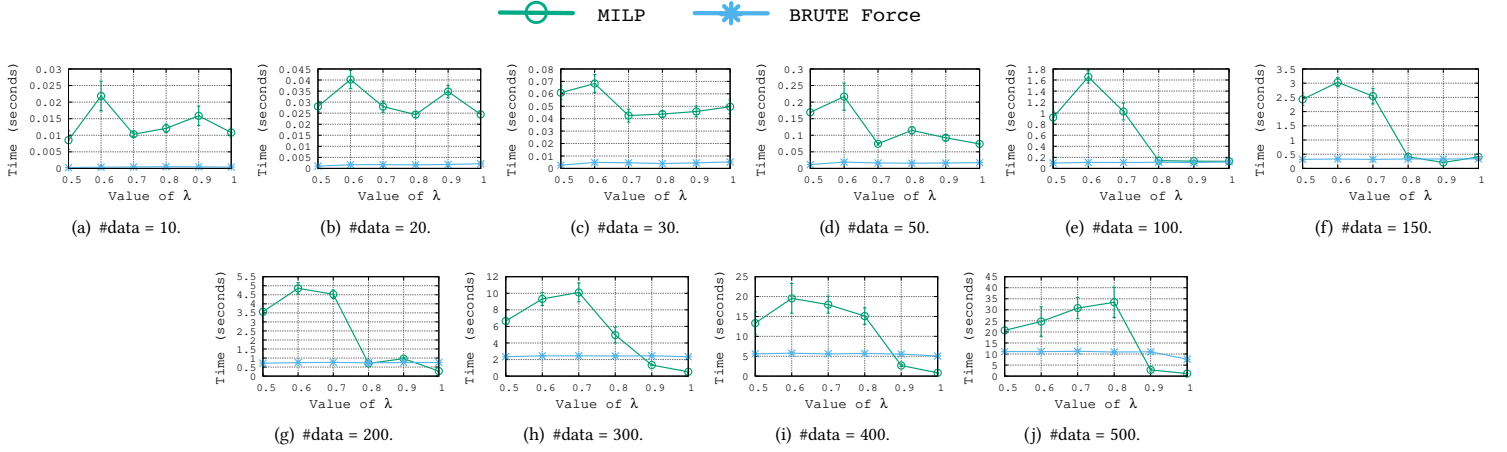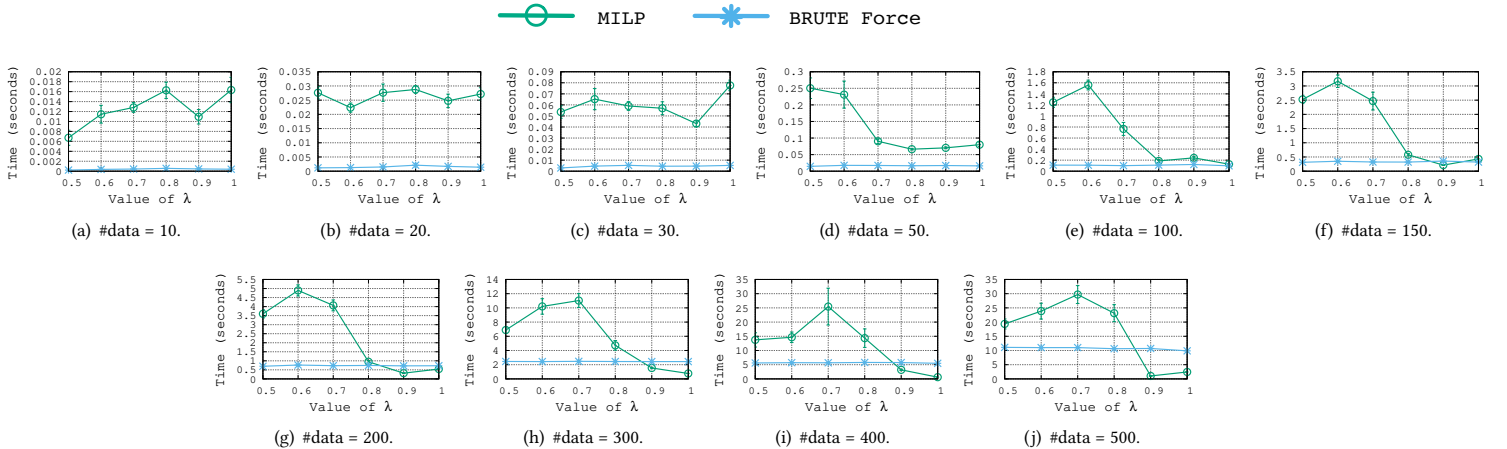Figure 18: Time complexity with 8 relevant token.

Figure 19: Time complexity with 9 relevant token.

(a) #data = 10. (b) #data = 20. (c) #data = 30. (d) #data = 50. (e) #data = 100. (f) #data = 150.

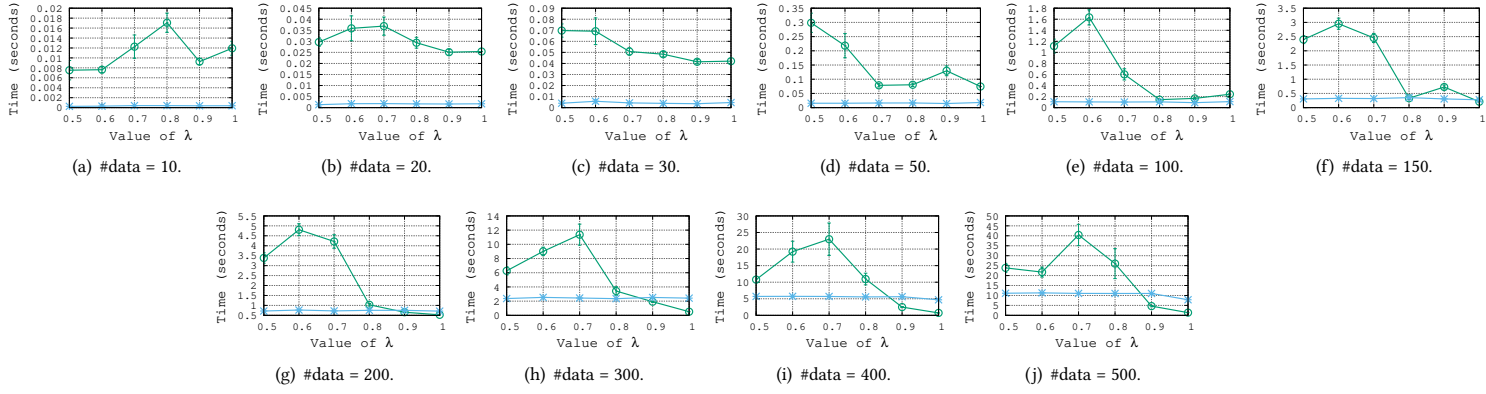(g) #data = 200. (h) #data = 300. (i) #data = 400. (j) #data = 500.

Figure 20: Time complexity with 10 relevant token.
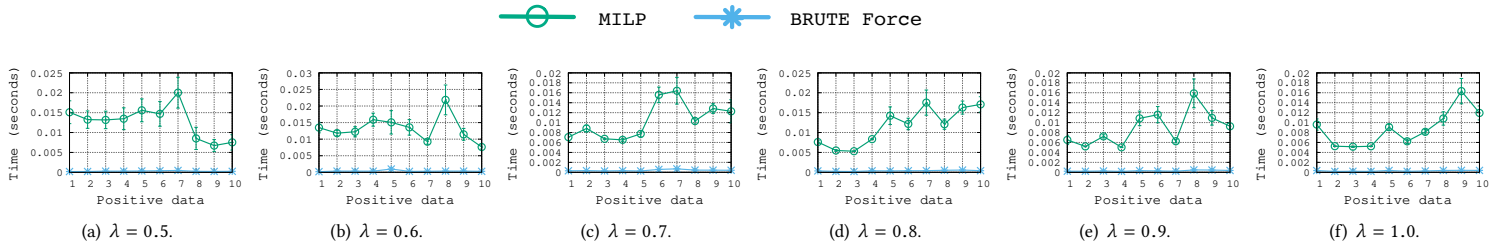
1.3 Time vs. Positive data

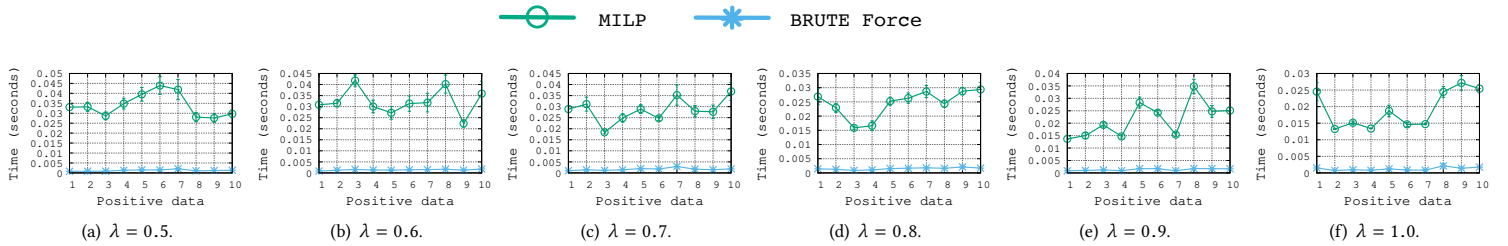Figure 21: Time complexity (noisy scoring function with #data= 10) .

Figure 22: Time complexity (noisy scoring function with #data= 20) .
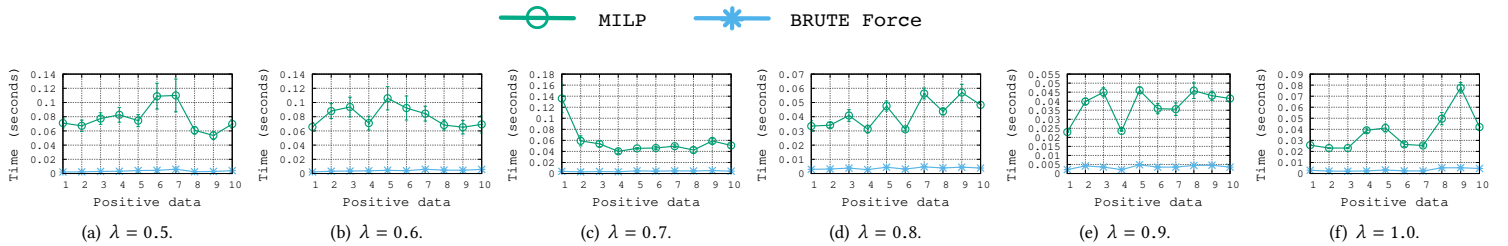

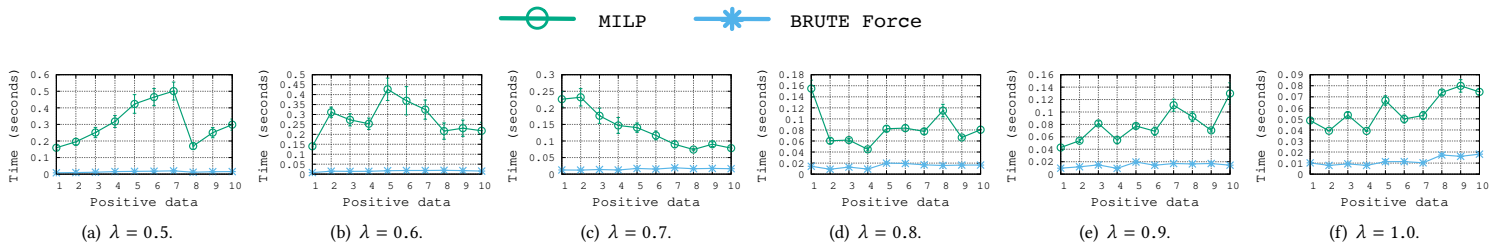Figure 23: Time complexity (noisy scoring function with #data= 30) .

Figure 24: Time complexity (noisy scoring function with #data= 50) .
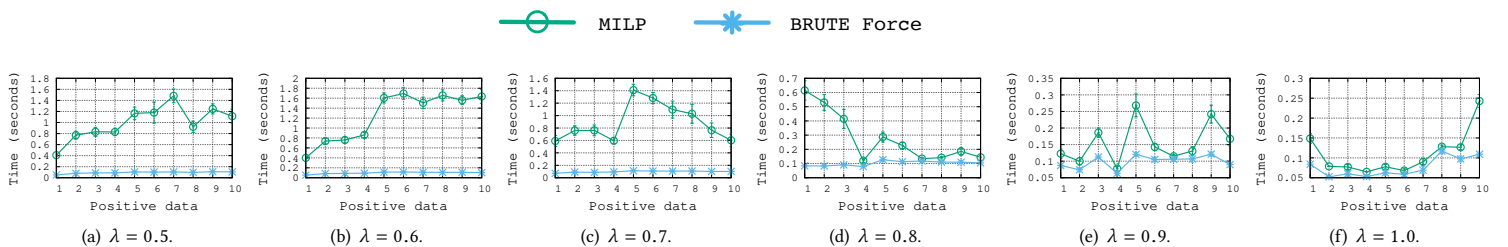

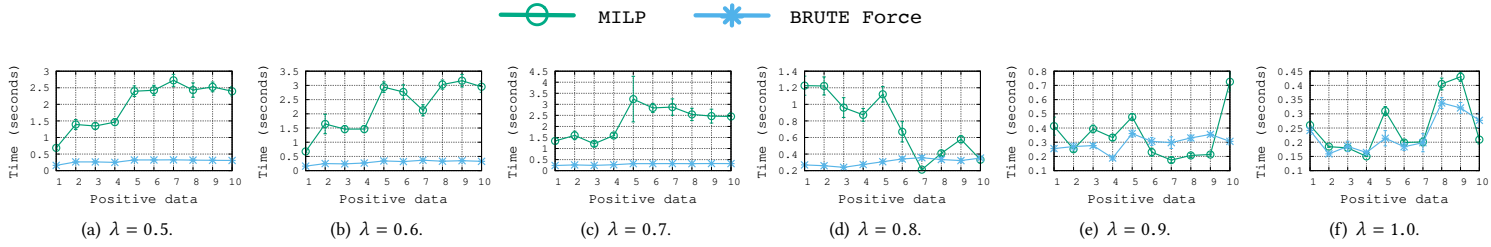Figure 25: Time complexity (noisy scoring function with #data= 100) .

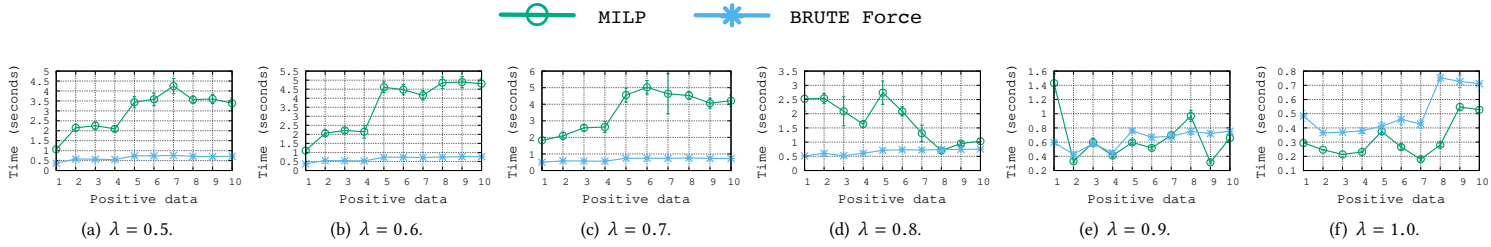Figure 26: Time complexity (noisy scoring function with #data= 150) .

Figure 27: Time complexity (noisy scoring function with #data= 200) .
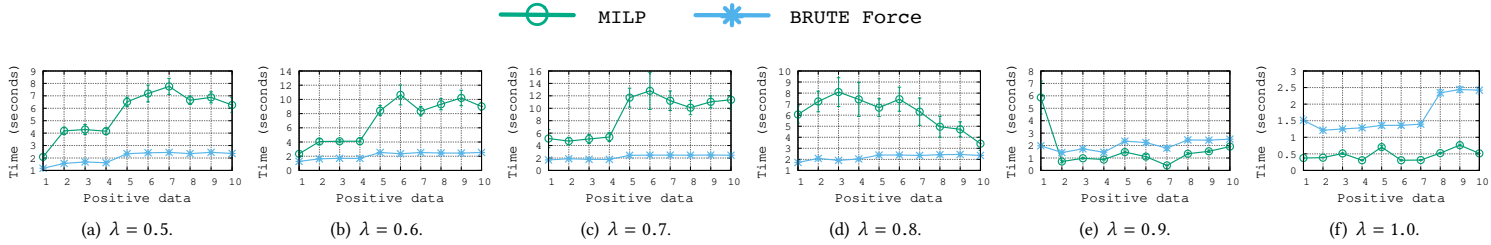

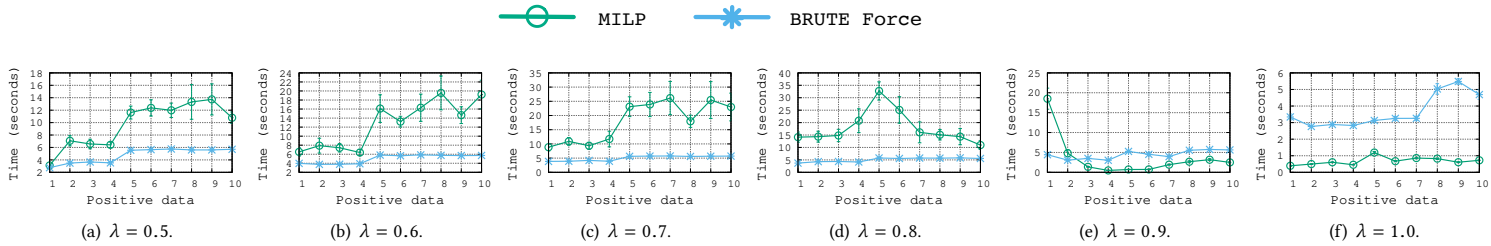Figure 28: Time complexity (noisy scoring function with #data= 300) .

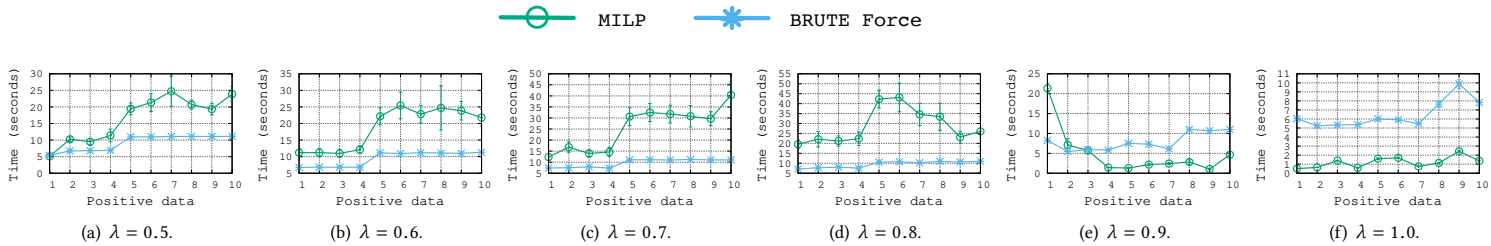Figure 29: Time complexity (noisy scoring function with #data= 400) .

Figure 30: Time complexity (noisy scoring function with #data= 500) .