Feature-sets that has been tried:

version1: pos-tag

48943 out of 51578 tags correct accuracy: 94.89
5917 groups in key
6458 groups in response
4118 correct groups
precision: 63.77
recall: 69.60
F1: 66.55

version2: pos-tag, current-token

48947 out of 51578 tags correct accuracy: 94.90
5917 groups in key
6464 groups in response
4128 correct groups
precision: 63.86
recall: 69.77
F1: 66.68

Version3: pos-tag, current-token, previous token

48873 out of 51578 tags correct accuracy: 94.76
5917 groups in key
6566 groups in response
4064 correct groups
precision: 61.89
recall: 68.68
F1: 65.11

Version4: pos-tag, current-token, next-token

45294 out of 51578 tags correct accuracy: 87.82 5917 groups in key 6340 groups in response 3548 correct groups

precision: 55.96 recall: 59.96 F1· 57.89

Version5: pos-tag, previous token, current-token, next-token

49662 out of 51578 tags correct

accuracy: 96.29 5917 groups in key 6111 groups in response 4565 correct groups precision: 74.70 recall: 77.15 F1: 75.91

Version 6: pos-tag, previous token, current-token, next-token, tag-type

49426 out of 51578 tags correct

accuracy: 95.83 5917 groups in key 5623 groups in response 4347 correct groups precision: 77.31 recall: 73.47

F1: 75.34

Version 7: pos-tag, previous token, current-token, next-token, bio-chunk

accuracy: 96.22 5917 groups in key 6114 groups in response 4552 correct groups precision: 74.45 recall: 76.93 75.67 F1:

Version 8: pos-tag, previous token, current-token, next-token, chunk

49628 out of 51578 tags correct accuracy: 96.22 5917 groups in key 6117 groups in response 4553 correct groups

precision: 74.43 recall: 76.95 F1: 75.67

Version 9: pos, previous token, current-token, next-token, previous-tag, next-tag

48822 out of 51578 tags correct accuracy: 94.66
5917 groups in key
5526 groups in response
4206 correct groups precision: 76.11 recall: 71.08
F1: 73.51

Version 10: pos, previous token, current-token, next-token, previous-tag, chunk

49601 out of 51578 tags correct accuracy: 96.17
5917 groups in key
5633 groups in response
4538 correct groups precision: 80.56 recall: 76.69
F1: 78.58

Version 11: pos, previous token, current-token, previous-tag, chunk

49236 out of 51578 tags correct accuracy: 95.46
5917 groups in key
5747 groups in response
4357 correct groups
precision: 75.81
recall: 73.64
F1: 74.71

Version 12: pos, previous token, current-token, next-token, previous-tag, tag-type

dev.name dev-output.txt 48558 out of 51578 tags correct

accuracy: 94.14 5917 groups in key 4383 groups in response 3776 correct groups precision: 86.15 recall: 63.82

recall: 63.82 F1: 73.32

Version 13: pos, previous token, current-token, next-token, previous-tag

49622 out of 51578 tags correct

accuracy: 96.21 5917 groups in key 5655 groups in response 4568 correct groups precision: 80.78 recall: 77.20

F1: 78.95

Instructions to run the code:

- All files must be in the same directory.
- Cd to that directory
- Run the following commands sequentially:
 - o javac -cp .:maxent-3.0.0.jar:trove.jar MEtrain.java
 - o javac -cp .:maxent-3.0.0.jar:trove.jar MEtag.java
 - o Python3 v10-p1.py
 - o java -cp .:maxent-3.0.0.jar:trove.jar MEtrain train-input.txt train-output.txt
 - o Python3 v10-p2.py
 - o java -cp .:maxent-3.0.0.jar:trove.jar MEtag dev-input.txt trainoutput.txt dev-output.txt
 - o python3 score.name.py dev.name dev-output.txt
 - o java -cp .:maxent-3.0.0.jar:trove.jar MEtag test.pos-chunk trainoutput.txt test.name