```
################################################################################
##
Generated attack set: ()
Generated attack set: ('DeepFool',)
Generated attack set: ('FGSM',)
Generated attack set: ('PGD',)
Generated attack set: ('CW',)
Generated attack set: ('FAB1',)
Generated attack set: ('FAB2',)
Generated attack set: ('DeepFool', 'FGSM')
Generated attack set: ('DeepFool', 'PGD')
Generated attack set: ('DeepFool', 'CW')
Generated attack set: ('DeepFool', 'FAB1')
Generated attack set: ('DeepFool', 'FAB2')
Generated attack set: ('FGSM', 'PGD')
Generated attack set: ('FGSM', 'CW')
Generated attack set: ('FGSM', 'FAB1')
Generated attack set: ('FGSM', 'FAB2')
Generated attack set: ('PGD', 'CW')
Generated attack set: ('PGD', 'FAB1')
Generated attack set: ('PGD', 'FAB2')
Generated attack set: ('CW', 'FAB1')
Generated attack set: ('CW', 'FAB2')
Generated attack set: ('FAB1', 'FAB2')
Generated attack set: ('DeepFool', 'FGSM', 'PGD')
Generated attack set: ('DeepFool', 'FGSM', 'CW')
Generated attack set: ('DeepFool', 'FGSM', 'FAB1')
Generated attack set: ('DeepFool', 'FGSM', 'FAB2')
Generated attack set: ('DeepFool', 'PGD', 'CW')
Generated attack set: ('DeepFool', 'PGD', 'FAB1')
Generated attack set: ('DeepFool', 'PGD', 'FAB2')
Generated attack set: ('DeepFool', 'CW', 'FAB1')
Generated attack set: ('DeepFool', 'CW', 'FAB2')
Generated attack set: ('DeepFool', 'FAB1', 'FAB2')
Generated attack set: ('FGSM', 'PGD', 'CW')
Generated attack set: ('FGSM', 'PGD', 'FAB1')
Generated attack set: ('FGSM', 'PGD', 'FAB2')
Generated attack set: ('FGSM', 'CW', 'FAB1')
Generated attack set: ('FGSM', 'CW', 'FAB2')
Generated attack set: ('FGSM', 'FAB1', 'FAB2')
Generated attack set: ('PGD', 'CW', 'FAB1')
Generated attack set: ('PGD', 'CW', 'FAB2')
Generated attack set: ('PGD', 'FAB1', 'FAB2')
Generated attack set: ('CW', 'FAB1', 'FAB2')
Generated attack set: ('DeepFool', 'FGSM', 'PGD', 'CW')
Generated attack set: ('DeepFool', 'FGSM', 'PGD', 'FAB1')
Generated attack set: ('DeepFool', 'FGSM', 'PGD', 'FAB2')
Generated attack set: ('DeepFool', 'FGSM', 'CW', 'FAB1')
Generated attack set: ('DeepFool', 'FGSM', 'CW', 'FAB2')
Generated attack set: ('DeepFool', 'FGSM', 'FAB1', 'FAB2')
Generated attack set: ('DeepFool', 'PGD', 'CW', 'FAB1')
Generated attack set: ('DeepFool', 'PGD', 'CW', 'FAB2')
Generated attack set: ('DeepFool', 'PGD', 'FAB1', 'FAB2')
Generated attack set: ('DeepFool', 'CW', 'FAB1', 'FAB2')
Generated attack set: ('FGSM', 'PGD', 'CW', 'FAB1')
Generated attack set: ('FGSM', 'PGD', 'CW', 'FAB2')
Generated attack set: ('FGSM', 'PGD', 'FAB1', 'FAB2')
Generated attack set: ('FGSM', 'CW', 'FAB1', 'FAB2')
Generated attack set: ('PGD', 'CW', 'FAB1', 'FAB2')
Generated attack set: ('DeepFool', 'FGSM', 'PGD', 'CW', 'FAB1')
```

Generated attack set: ('DeepFool', 'FGSM', 'PGD', 'CW', 'FAB2')
Generated attack set: ('DeepFool', 'FGSM', 'PGD', 'FAB1', 'FAB2')
Generated attack set: ('DeepFool', 'FGSM', 'CW', 'FAB1', 'FAB2')
Generated attack set: ('DeepFool', 'PGD', 'CW', 'FAB1', 'FAB2')
Generated attack set: ('FGSM', 'PGD', 'CW', 'FAB1', 'FAB2')
Generated attack set: ('DeepFool', 'FGSM', 'PGD', 'CW', 'FAB1', 'FAB2')
Starting threads for generating adversarial sampels...
.....The command line might be dead for a while
###
##
Attacking with: []
 Test accuracy: 97.11000061035156
 Execution time: 0:03:07.892843

###
##
Attacking with: ['FGSM']
 Test accuracy: 94.88999938964844
 Execution time: 0:07:10.669043

###
##
Attacking with: ['PGD']
 Test accuracy: 94.9000015258789
 Execution time: 0:34:43.777608

###
##
Attacking with: ['FGSM', 'PGD']
 Test accuracy: 90.41000366210938
 Execution time: 0:41:25.141462

###
##
Attacking with: ['CW']
 Test accuracy: 97.08999633789062
 Execution time: 2:06:18.743635

###
##
Attacking with: ['FGSM', 'CW']
 Test accuracy: 94.80999755859375
 Execution time: 3:10:20.876512

###
##
Attacking with: ['DeepFool']
 Test accuracy: 83.79000091552734
 Execution time: 3:17:40.670423

###
##
Attacking with: ['DeepFool', 'FGSM']
 Test accuracy: 56.439998626708984
 Execution time: 3:21:56.449804

###
##
Attacking with: ['DeepFool', 'FGSM', 'FAB1']
 Test accuracy: 56.4900016784668

Execution time: 3:25:49.405783

###
##
Attacking with: ['DeepFool', 'FGSM', 'FAB2']
 Test accuracy: 56.459999084472656
 Execution time: 3:26:21.316585

###
##
Attacking with: ['DeepFool', 'FGSM', 'FAB1', 'FAB2']
 Test accuracy: 56.470001220703125
 Execution time: 3:29:28.760279

###
##
Attacking with: ['PGD', 'CW']
 Test accuracy: 94.80000305175781
 Execution time: 3:35:59.966987

###
##
Attacking with: ['FGSM', 'PGD', 'CW']
 Test accuracy: 90.20999908447266
 Execution time: 3:41:05.990318

###
##
Attacking with: ['DeepFool', 'PGD']
 Test accuracy: 56.279998779296875
 Execution time: 3:46:16.719757

###
##
Attacking with: ['DeepFool', 'PGD', 'FAB1']
 Test accuracy: 56.20000076293945
 Execution time: 3:49:28.876206

###
##
Attacking with: ['DeepFool', 'PGD', 'FAB2']
 Test accuracy: 56.290000915527344
 Execution time: 3:49:44.984452

###
##
Attacking with: ['DeepFool', 'FGSM', 'PGD']
 Test accuracy: 24.549999237060547
 Execution time: 3:49:46.676338

###
##
Attacking with: ['DeepFool', 'FGSM', 'PGD', 'FAB2']
 Test accuracy: 24.479999542236328
 Execution time: 3:52:23.225761

###
##
Attacking with: ['DeepFool', 'FGSM', 'PGD', 'FAB1']
 Test accuracy: 24.540000915527344

Execution time: 3:52:33.720351

###
##
Attacking with: ['DeepFool', 'PGD', 'FAB1', 'FAB2']
 Test accuracy: 56.290000915527344
 Execution time: 3:52:51.176544

###
##
Attacking with: ['DeepFool', 'FGSM', 'PGD', 'FAB1', 'FAB2']
 Test accuracy: 24.399999618530273
 Execution time: 3:55:02.738183

###
##
Attacking with: ['DeepFool', 'CW']
 Test accuracy: 83.04000091552734
 Execution time: 5:09:00.955376

###
##
Attacking with: ['DeepFool', 'FGSM', 'CW']
 Test accuracy: 56.56999969482422
 Execution time: 5:11:24.941025

###
##
Attacking with: ['DeepFool', 'CW', 'FAB1']
 Test accuracy: 82.98999786376953
 Execution time: 5:13:38.815613

###
##
Attacking with: ['DeepFool', 'FGSM', 'CW', 'FAB2']
 Test accuracy: 56.529998779296875
 Execution time: 5:13:40.473946

###
##
Attacking with: ['DeepFool', 'CW', 'FAB2']
 Test accuracy: 83.12999725341797
 Execution time: 5:13:58.899259

###
##
Attacking with: ['DeepFool', 'FGSM', 'CW', 'FAB1']
 Test accuracy: 56.52000045776367
 Execution time: 5:14:22.178972

###
##
Attacking with: ['DeepFool', 'FGSM', 'CW', 'FAB1', 'FAB2']
 Test accuracy: 56.4900016784668
 Execution time: 5:15:54.652663

###
##
Attacking with: ['DeepFool', 'CW', 'FAB1', 'FAB2']
 Test accuracy: 83.04000091552734

Execution time: 5:16:18.071459

##
##
Attacking with: ['DeepFool', 'PGD', 'CW']
 Test accuracy: 56.41999816894531
 Execution time: 5:27:15.460865

##
##
Attacking with: ['DeepFool', 'FGSM', 'PGD', 'CW']
 Test accuracy: 24.479999542236328
 Execution time: 5:28:56.549224

##
##
Attacking with: ['DeepFool', 'PGD', 'CW', 'FAB1']
 Test accuracy: 56.29999923706055
 Execution time: 5:29:02.271638

##
##
Attacking with: ['DeepFool', 'PGD', 'CW', 'FAB2']
 Test accuracy: 56.20000076293945
 Execution time: 5:29:12.643965

##
##
Attacking with: ['DeepFool', 'PGD', 'CW', 'FAB1', 'FAB2']
 Test accuracy: 56.470001220703125
 Execution time: 5:30:21.932223

##
##
Attacking with: ['DeepFool', 'FGSM', 'PGD', 'CW', 'FAB1']
 Test accuracy: 24.6200008392334
 Execution time: 5:30:22.536518

##
##
Attacking with: ['DeepFool', 'FGSM', 'PGD', 'CW', 'FAB2']
 Test accuracy: 24.450000762939453
 Execution time: 5:30:49.552298

##
##
Attacking with: ['DeepFool', 'FGSM', 'PGD', 'CW', 'FAB1', 'FAB2']
 Test accuracy: 24.459999084472656
 Execution time: 5:31:54.879401

##
##
Attacking with: ['DeepFool', 'FAB2']
 Test accuracy: 83.68000030517578
 Execution time: 7:57:40.702624

##
##
Attacking with: ['DeepFool', 'FAB1']
 Test accuracy: 83.70999908447266

Execution time: 7:57:41.157284

##
##
Attacking with: ['FGSM', 'PGD', 'FAB1']
 Test accuracy: 89.70999908447266
 Execution time: 7:57:42.049139

##
##
Attacking with: ['FGSM', 'PGD', 'FAB2']
 Test accuracy: 89.7300033569336
 Execution time: 7:57:45.123432

##
##
Attacking with: ['DeepFool', 'FAB1', 'FAB2']
 Test accuracy: 83.61000061035156
 Execution time: 8:04:45.088691

##
##
Attacking with: ['FGSM', 'FAB1']
 Test accuracy: 94.41999816894531
 Execution time: 8:10:44.857648

##
##
Attacking with: ['FGSM', 'FAB2']
 Test accuracy: 94.41000366210938
 Execution time: 8:11:07.243530

##
##
Attacking with: ['FGSM', 'PGD', 'CW', 'FAB2']
 Test accuracy: 89.68000030517578
 Execution time: 8:13:33.277943

##
##
Attacking with: ['FGSM', 'PGD', 'CW', 'FAB1']
 Test accuracy: 89.62000274658203
 Execution time: 8:13:52.323711

##
##
Attacking with: ['PGD', 'FAB1']
 Test accuracy: 94.4000015258789
 Execution time: 8:15:58.366979

##
##
Attacking with: ['PGD', 'FAB2']
 Test accuracy: 94.4000015258789
 Execution time: 8:16:25.651317

##
##
Attacking with: ['FAB2']
 Test accuracy: 96.7699966430664

Execution time: 8:32:39.748451

##
##
Attacking with: ['FAB1']
 Test accuracy: 96.7699966430664
 Execution time: 8:32:58.666691

##
##
Attacking with: ['FGSM', 'CW', 'FAB2']
 Test accuracy: 94.41000366210938
 Execution time: 8:51:13.988982

##
##
Attacking with: ['FGSM', 'CW', 'FAB1']
 Test accuracy: 94.4000015258789
 Execution time: 8:51:18.526701

##
##
Attacking with: ['PGD', 'CW', 'FAB1']
 Test accuracy: 94.41000366210938
 Execution time: 8:53:21.943140

##
##
Attacking with: ['PGD', 'CW', 'FAB2']
 Test accuracy: 94.41000366210938
 Execution time: 8:53:33.260760

##
##
Attacking with: ['CW', 'FAB1']
 Test accuracy: 96.77999877929688
 Execution time: 8:54:27.766193

##
##
Attacking with: ['CW', 'FAB2']
 Test accuracy: 96.7699966430664
 Execution time: 8:54:45.004788

##
##
Attacking with: ['FGSM', 'PGD', 'FAB1', 'FAB2']
 Test accuracy: 89.7300033569336
 Execution time: 9:08:32.188767

##
##
Attacking with: ['FGSM', 'PGD', 'CW', 'FAB1', 'FAB2']
 Test accuracy: 89.63999938964844
 Execution time: 9:11:55.215161

##
##
Attacking with: ['FGSM', 'FAB1', 'FAB2']
 Test accuracy: 94.41000366210938

Execution time: 9:17:32.396903

##
##
Attacking with: ['PGD', 'FAB1', 'FAB2']
 Test accuracy: 94.44999694824219
 Execution time: 9:18:09.232408

##
##
Attacking with: ['FGSM', 'CW', 'FAB1', 'FAB2']
 Test accuracy: 94.4000015258789
 Execution time: 9:19:45.894192

##
##
Attacking with: ['PGD', 'CW', 'FAB1', 'FAB2']
 Test accuracy: 94.41000366210938
 Execution time: 9:19:59.493986

##
##
Attacking with: ['FAB1', 'FAB2']
 Test accuracy: 96.7699966430664
 Execution time: 9:20:03.448648

##
##
Attacking with: ['CW', 'FAB1', 'FAB2']
 Test accuracy: 96.7699966430664
 Execution time: 9:20:50.280868

##
##