/Library/Java/JavaVirtualMachines/jdk1.8.0\_144.jdk/Contents/Home/bin/java -Didea.launcher.port=7536 "-Didea.launcher.bin.path=/Applications/IntelliJ IDEA.app/Contents/bin" -Dfile.encoding=UTF-8 -classpath "/Library/Java/JavaVirtualMachines/jdk1.8.0\_144.jdk/Contents/Home/jre/lib/charsets.jar:/Library/Java/JavaVirtualMachines/jdk1.8.0\_144.jdk/Contents/Home/jre/lib/deploy.jar:/Library/Java/JavaVirtualMachines/jdk1.8.0\_144.jdk/Contents/Home/jre/lib/ext/cldrdata.jar:/Library/Java/JavaVirtualMachines/jdk1.8.0\_144.jdk/Contents/Home/jre/lib/ext/dnsns.jar:/Library/Java/JavaVirtualMachines/jdk1.8.0\_144.jdk/Contents/Home/jre/lib/ext/jaccess.jar:/Library/Java/JavaVirtualMachines/jdk1.8.0\_144.jdk/Contents/Home/jre/lib/ext/jfxrt.jar:/Library/Java/JavaVirtualMachines/jdk1.8.0\_144.jdk/Contents/Home/jre/lib/ext/localedata.jar:/Library/Java/JavaVirtualMachines/jdk1.8.0\_144.jdk/Contents/Home/jre/lib/ext/nashorn.jar:/Library/Java/JavaVirtualMachines/jdk1.8.0\_144.jdk/Contents/Home/jre/lib/ext/sunec.jar:/Library/Java/JavaVirtualMachines/jdk1.8.0\_144.jdk/Contents/Home/jre/lib/ext/sunjce\_provider.jar:/Library/Java/JavaVirtualMachines/jdk1.8.0\_144.jdk/Contents/Home/jre/lib/ext/sunpkcs11.jar:/Library/Java/JavaVirtualMachines/jdk1.8.0\_144.jdk/Contents/Home/jre/lib/ext/zipfs.jar:/Library/Java/JavaVirtualMachines/jdk1.8.0\_144.jdk/Contents/Home/jre/lib/javaws.jar:/Library/Java/JavaVirtualMachines/jdk1.8.0\_144.jdk/Contents/Home/jre/lib/jce.jar:/Library/Java/JavaVirtualMachines/jdk1.8.0\_144.jdk/Contents/Home/jre/lib/jfr.jar:/Library/Java/JavaVirtualMachines/jdk1.8.0\_144.jdk/Contents/Home/jre/lib/jfxswt.jar:/Library/Java/JavaVirtualMachines/jdk1.8.0\_144.jdk/Contents/Home/jre/lib/jsse.jar:/Library/Java/JavaVirtualMachines/jdk1.8.0\_144.jdk/Contents/Home/jre/lib/management-agent.jar:/Library/Java/JavaVirtualMachines/jdk1.8.0\_144.jdk/Contents/Home/jre/lib/plugin.jar:/Library/Java/JavaVirtualMachines/jdk1.8.0\_144.jdk/Contents/Home/jre/lib/resources.jar:/Library/Java/JavaVirtualMachines/jdk1.8.0\_144.jdk/Contents/Home/jre/lib/rt.jar:/Library/Java/JavaVirtualMachines/jdk1.8.0\_144.jdk/Contents/Home/lib/ant-javafx.jar:/Library/Java/JavaVirtualMachines/jdk1.8.0\_144.jdk/Contents/Home/lib/dt.jar:/Library/Java/JavaVirtualMachines/jdk1.8.0\_144.jdk/Contents/Home/lib/javafx-mx.jar:/Library/Java/JavaVirtualMachines/jdk1.8.0\_144.jdk/Contents/Home/lib/jconsole.jar:/Library/Java/JavaVirtualMachines/jdk1.8.0\_144.jdk/Contents/Home/lib/packager.jar:/Library/Java/JavaVirtualMachines/jdk1.8.0\_144.jdk/Contents/Home/lib/sa-jdi.jar:/Library/Java/JavaVirtualMachines/jdk1.8.0\_144.jdk/Contents/Home/lib/tools.jar:/Users/juliananderson/Dropbox/skripsi-java-fix/out/production/skripsi:/Applications/IntelliJ IDEA.app/Contents/lib/idea\_rt.jar" com.intellij.rt.execution.application.AppMain Main

SLC for CVRP

Number of Vehicle = Vehicle's Capacity = Number of Customers = Number of Teams = Number of Fixed Player(nFP) = Number of Substitute Player(nS) = Number of Player in Each Team = 22

Number of Player in the League = 110

Demand Pelanggan =

25

3

13

17

16

9

22

10

16

8

3

16

16

10

24

16

15

14

5

12

2

18

20

15

8

22

15

10

13

19

0 70 92 57 44 45 54 50 48 53 93 69 49 53 71 70 43 53 43 70 92 38 50 50 69 44 49 94 49 47 50

70 0 76 16 28 37 18 20 22 18 78 6 21 18 10 7 39 18 38 2 78 39 21 20 4 37 22 79 22 24 20

92 76 0 83 82 96 80 76 74 79 2 69 73 77 66 69 96 77 96 73 4 92 79 75 71 95 69 3 70 79 76

57 16 83 0 13 21 4 9 12 5 85 19 12 6 23 21 23 6 22 17 85 23 8 10 18 21 16 86 15 10 9

44 28 82 13 0 14 10 8 9 9 84 29 10 10 32 30 15 10 15 28 84 12 7 9 28 13 14 85 13 4 8

45 37 96 21 14 0 20 22 23 20 98 40 24 22 43 41 3 22 2 37 98 8 19 22 38 1 28 99 27 18 22

54 18 80 4 10 20 0 6 8 1 82 20 9 3 23 21 22 3 21 18 83 21 4 6 18 20 13 83 12 7 6

50 20 76 9 8 22 6 0 3 4 78 21 3 3 24 22 23 3 22 20 78 21 3 1 20 21 7 79 6 4 0

48 22 74 12 9 23 8 3 0 7 76 22 1 6 24 23 24 6 23 21 76 21 5 2 21 22 5 77 4 5 3

53 18 79 5 9 20 1 4 7 0 81 20 7 2 23 21 22 2 21 18 81 21 3 5 19 20 11 82 10 6 4

93 78 2 85 84 98 82 78 76 81 0 71 75 79 68 71 98 79 98 76 2 94 81 77 73 97 71 1 72 81 78

69 6 69 19 29 40 20 21 22 20 71 0 20 19 4 1 42 19 41 4 72 41 22 20 2 40 20 72 20 25 21

49 21 73 12 10 24 9 3 1 7 75 20 0 6 23 22 25 6 25 20 75 22 6 2 20 23 4 76 3 6 3

53 18 77 6 10 22 3 3 6 2 79 19 6 0 22 20 24 0 23 17 80 22 4 4 17 22 9 80 9 6 3

71 10 66 23 32 43 23 24 24 23 68 4 23 22 0 3 45 22 45 8 69 44 25 23 6 43 22 69 22 28 24

70 7 69 21 30 41 21 22 23 21 71 1 22 20 3 0 43 20 42 5 72 42 24 21 3 41 21 72 22 26 22

43 39 96 23 15 3 22 23 24 22 98 42 25 24 45 43 0 24 1 40 98 6 20 24 40 2 28 99 28 19 23

53 18 77 6 10 22 3 3 6 2 79 19 6 0 22 20 24 0 23 17 80 22 4 4 17 22 9 80 9 6 3

43 38 96 22 15 2 21 22 23 21 98 41 25 23 45 42 1 23 0 39 98 6 20 23 40 1 28 99 27 18 22

70 2 73 17 28 37 18 20 21 18 76 4 20 17 8 5 40 17 39 0 76 39 21 20 2 38 21 77 21 24 20

92 78 4 85 84 98 83 78 76 81 2 72 75 80 69 72 98 80 98 76 0 93 81 77 74 97 71 2 72 81 78

38 39 92 23 12 8 21 21 21 21 94 41 22 22 44 42 6 22 6 39 93 0 18 21 39 6 25 95 24 16 21

50 21 79 8 7 19 4 3 5 3 81 22 6 4 25 24 20 4 20 21 81 18 0 4 21 18 10 82 9 3 3

50 20 75 10 9 22 6 1 2 5 77 20 2 4 23 21 24 4 23 20 77 21 4 0 19 22 6 78 5 5 1

69 4 71 18 28 38 18 20 21 19 73 2 20 17 6 3 40 17 40 2 74 39 21 19 0 38 20 74 20 24 20

44 37 95 21 13 1 20 21 22 20 97 40 23 22 43 41 2 22 1 38 97 6 18 22 38 0 27 98 26 17 21

49 22 69 16 14 28 13 7 5 11 71 20 4 9 22 21 28 9 28 21 71 25 10 6 20 27 0 72 1 10 7

94 79 3 86 85 99 83 79 77 82 1 72 76 80 69 72 99 80 99 77 2 95 82 78 74 98 72 0 73 82 79

49 22 70 15 13 27 12 6 4 10 72 20 3 9 22 22 28 9 27 21 72 24 9 5 20 26 1 73 0 9 6

47 24 79 10 4 18 7 4 5 6 81 25 6 6 28 26 19 6 18 24 81 16 3 5 24 17 10 82 9 0 4

50 20 76 9 8 22 6 0 3 4 78 21 3 3 24 22 23 3 22 20 78 21 3 1 20 21 7 79 6 4 0

24

96

14

14

0

16

20

22

17

98

30

23

19

34

31

0

19

0

26

98

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17

21

28

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99

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24 6

96 29

14 19

14 32

0 34

16 22

20 26

22 28

17 23

98 30

30 8

23 27

19 23

34 7

31 7

0 37

19 23

0 36

26 7

98 32

5 40

17 26

21 26

28 8

1 35

27 28

99 30

26 28

17 29

20 26

Demand Pelanggan 1 = 25

Demand Pelanggan 2 = 3

Demand Pelanggan 3 = 13

Demand Pelanggan 4 = 17

Demand Pelanggan 5 = 16

Demand Pelanggan 6 = 9

Demand Pelanggan 7 = 22

Demand Pelanggan 8 = 10

Demand Pelanggan 9 = 16

Demand Pelanggan 10 = 8

Demand Pelanggan 11 = 3

Demand Pelanggan 12 = 16

Demand Pelanggan 13 = 16

Demand Pelanggan 14 = 10

Demand Pelanggan 15 = 24

Demand Pelanggan 16 = 16

Demand Pelanggan 17 = 15

Demand Pelanggan 18 = 14

Demand Pelanggan 19 = 5

Demand Pelanggan 20 = 12

Demand Pelanggan 21 = 2

Demand Pelanggan 22 = 18

Demand Pelanggan 23 = 20

Demand Pelanggan 24 = 15

Demand Pelanggan 25 = 8

Demand Pelanggan 26 = 22

Demand Pelanggan 27 = 15

Demand Pelanggan 28 = 10

Demand Pelanggan 29 = 13

Demand Pelanggan 30 = 19

Matriks Jarak depot ke pelanggan =

0.00 70.00 92.00 57.00 44.00 45.00 54.00 50.00 48.00 53.00 93.00 69.00 49.00 53.00 71.00 70.00 43.00 53.00 43.00 70.00 92.00 38.00 50.00 50.00 69.00 44.00 49.00 94.00 49.00 47.00 50.00

70.00 0.00 76.00 16.00 28.00 37.00 18.00 20.00 22.00 18.00 78.00 6.00 21.00 18.00 10.00 7.00 39.00 18.00 38.00 2.00 78.00 39.00 21.00 20.00 4.00 37.00 22.00 79.00 22.00 24.00 20.00

92.00 76.00 0.00 83.00 82.00 96.00 80.00 76.00 74.00 79.00 2.00 69.00 73.00 77.00 66.00 69.00 96.00 77.00 96.00 73.00 4.00 92.00 79.00 75.00 71.00 95.00 69.00 3.00 70.00 79.00 76.00

57.00 16.00 83.00 0.00 13.00 21.00 4.00 9.00 12.00 5.00 85.00 19.00 12.00 6.00 23.00 21.00 23.00 6.00 22.00 17.00 85.00 23.00 8.00 10.00 18.00 21.00 16.00 86.00 15.00 10.00 9.00

44.00 28.00 82.00 13.00 0.00 14.00 10.00 8.00 9.00 9.00 84.00 29.00 10.00 10.00 32.00 30.00 15.00 10.00 15.00 28.00 84.00 12.00 7.00 9.00 28.00 13.00 14.00 85.00 13.00 4.00 8.00

45.00 37.00 96.00 21.00 14.00 0.00 20.00 22.00 23.00 20.00 98.00 40.00 24.00 22.00 43.00 41.00 3.00 22.00 2.00 37.00 98.00 8.00 19.00 22.00 38.00 1.00 28.00 99.00 27.00 18.00 22.00

54.00 18.00 80.00 4.00 10.00 20.00 0.00 6.00 8.00 1.00 82.00 20.00 9.00 3.00 23.00 21.00 22.00 3.00 21.00 18.00 83.00 21.00 4.00 6.00 18.00 20.00 13.00 83.00 12.00 7.00 6.00

50.00 20.00 76.00 9.00 8.00 22.00 6.00 0.00 3.00 4.00 78.00 21.00 3.00 3.00 24.00 22.00 23.00 3.00 22.00 20.00 78.00 21.00 3.00 1.00 20.00 21.00 7.00 79.00 6.00 4.00 0.00

48.00 22.00 74.00 12.00 9.00 23.00 8.00 3.00 0.00 7.00 76.00 22.00 1.00 6.00 24.00 23.00 24.00 6.00 23.00 21.00 76.00 21.00 5.00 2.00 21.00 22.00 5.00 77.00 4.00 5.00 3.00

53.00 18.00 79.00 5.00 9.00 20.00 1.00 4.00 7.00 0.00 81.00 20.00 7.00 2.00 23.00 21.00 22.00 2.00 21.00 18.00 81.00 21.00 3.00 5.00 19.00 20.00 11.00 82.00 10.00 6.00 4.00

93.00 78.00 2.00 85.00 84.00 98.00 82.00 78.00 76.00 81.00 0.00 71.00 75.00 79.00 68.00 71.00 98.00 79.00 98.00 76.00 2.00 94.00 81.00 77.00 73.00 97.00 71.00 1.00 72.00 81.00 78.00

69.00 6.00 69.00 19.00 29.00 40.00 20.00 21.00 22.00 20.00 71.00 0.00 20.00 19.00 4.00 1.00 42.00 19.00 41.00 4.00 72.00 41.00 22.00 20.00 2.00 40.00 20.00 72.00 20.00 25.00 21.00

49.00 21.00 73.00 12.00 10.00 24.00 9.00 3.00 1.00 7.00 75.00 20.00 0.00 6.00 23.00 22.00 25.00 6.00 25.00 20.00 75.00 22.00 6.00 2.00 20.00 23.00 4.00 76.00 3.00 6.00 3.00

53.00 18.00 77.00 6.00 10.00 22.00 3.00 3.00 6.00 2.00 79.00 19.00 6.00 0.00 22.00 20.00 24.00 0.00 23.00 17.00 80.00 22.00 4.00 4.00 17.00 22.00 9.00 80.00 9.00 6.00 3.00

71.00 10.00 66.00 23.00 32.00 43.00 23.00 24.00 24.00 23.00 68.00 4.00 23.00 22.00 0.00 3.00 45.00 22.00 45.00 8.00 69.00 44.00 25.00 23.00 6.00 43.00 22.00 69.00 22.00 28.00 24.00

70.00 7.00 69.00 21.00 30.00 41.00 21.00 22.00 23.00 21.00 71.00 1.00 22.00 20.00 3.00 0.00 43.00 20.00 42.00 5.00 72.00 42.00 24.00 21.00 3.00 41.00 21.00 72.00 22.00 26.00 22.00

43.00 39.00 96.00 23.00 15.00 3.00 22.00 23.00 24.00 22.00 98.00 42.00 25.00 24.00 45.00 43.00 0.00 24.00 1.00 40.00 98.00 6.00 20.00 24.00 40.00 2.00 28.00 99.00 28.00 19.00 23.00

53.00 18.00 77.00 6.00 10.00 22.00 3.00 3.00 6.00 2.00 79.00 19.00 6.00 0.00 22.00 20.00 24.00 0.00 23.00 17.00 80.00 22.00 4.00 4.00 17.00 22.00 9.00 80.00 9.00 6.00 3.00

43.00 38.00 96.00 22.00 15.00 2.00 21.00 22.00 23.00 21.00 98.00 41.00 25.00 23.00 45.00 42.00 1.00 23.00 0.00 39.00 98.00 6.00 20.00 23.00 40.00 1.00 28.00 99.00 27.00 18.00 22.00

70.00 2.00 73.00 17.00 28.00 37.00 18.00 20.00 21.00 18.00 76.00 4.00 20.00 17.00 8.00 5.00 40.00 17.00 39.00 0.00 76.00 39.00 21.00 20.00 2.00 38.00 21.00 77.00 21.00 24.00 20.00

92.00 78.00 4.00 85.00 84.00 98.00 83.00 78.00 76.00 81.00 2.00 72.00 75.00 80.00 69.00 72.00 98.00 80.00 98.00 76.00 0.00 93.00 81.00 77.00 74.00 97.00 71.00 2.00 72.00 81.00 78.00

38.00 39.00 92.00 23.00 12.00 8.00 21.00 21.00 21.00 21.00 94.00 41.00 22.00 22.00 44.00 42.00 6.00 22.00 6.00 39.00 93.00 0.00 18.00 21.00 39.00 6.00 25.00 95.00 24.00 16.00 21.00

50.00 21.00 79.00 8.00 7.00 19.00 4.00 3.00 5.00 3.00 81.00 22.00 6.00 4.00 25.00 24.00 20.00 4.00 20.00 21.00 81.00 18.00 0.00 4.00 21.00 18.00 10.00 82.00 9.00 3.00 3.00

50.00 20.00 75.00 10.00 9.00 22.00 6.00 1.00 2.00 5.00 77.00 20.00 2.00 4.00 23.00 21.00 24.00 4.00 23.00 20.00 77.00 21.00 4.00 0.00 19.00 22.00 6.00 78.00 5.00 5.00 1.00

69.00 4.00 71.00 18.00 28.00 38.00 18.00 20.00 21.00 19.00 73.00 2.00 20.00 17.00 6.00 3.00 40.00 17.00 40.00 2.00 74.00 39.00 21.00 19.00 0.00 38.00 20.00 74.00 20.00 24.00 20.00

44.00 37.00 95.00 21.00 13.00 1.00 20.00 21.00 22.00 20.00 97.00 40.00 23.00 22.00 43.00 41.00 2.00 22.00 1.00 38.00 97.00 6.00 18.00 22.00 38.00 0.00 27.00 98.00 26.00 17.00 21.00

49.00 22.00 69.00 16.00 14.00 28.00 13.00 7.00 5.00 11.00 71.00 20.00 4.00 9.00 22.00 21.00 28.00 9.00 28.00 21.00 71.00 25.00 10.00 6.00 20.00 27.00 0.00 72.00 1.00 10.00 7.00

94.00 79.00 3.00 86.00 85.00 99.00 83.00 79.00 77.00 82.00 1.00 72.00 76.00 80.00 69.00 72.00 99.00 80.00 99.00 77.00 2.00 95.00 82.00 78.00 74.00 98.00 72.00 0.00 73.00 82.00 79.00

49.00 22.00 70.00 15.00 13.00 27.00 12.00 6.00 4.00 10.00 72.00 20.00 3.00 9.00 22.00 22.00 28.00 9.00 27.00 21.00 72.00 24.00 9.00 5.00 20.00 26.00 1.00 73.00 0.00 9.00 6.00

47.00 24.00 79.00 10.00 4.00 18.00 7.00 4.00 5.00 6.00 81.00 25.00 6.00 6.00 28.00 26.00 19.00 6.00 18.00 24.00 81.00 16.00 3.00 5.00 24.00 17.00 10.00 82.00 9.00 0.00 4.00

50.00 20.00 76.00 9.00 8.00 22.00 6.00 0.00 3.00 4.00 78.00 21.00 3.00 3.00 24.00 22.00 23.00 3.00 22.00 20.00 78.00 21.00 3.00 1.00 20.00 21.00 7.00 79.00 6.00 4.00 0.00

Masukkan Koordinat X pelanggan (tanpa depot):

Masukkan Koordinat y pelanggan (tanpa depot):

Masukin koordinat semua pelanggan (X dan Y tanpa depot)

Coormin = 0.0

Coormax = 99.0

Season ke - 1

Jarak Terkecil adalah : 672.0

Season ke - 2

Jarak Terkecil adalah : 672.0

Season ke - 3

Jarak Terkecil adalah : 672.0

Season ke - 4

Jarak Terkecil adalah : 672.0

Season ke - 5

Jarak Terkecil adalah : 672.0

Season ke - 6

Jarak Terkecil adalah : 672.0

Season ke - 7

Jarak Terkecil adalah : 672.0

Season ke - 8

Jarak Terkecil adalah : 672.0

Season ke - 9

Jarak Terkecil adalah : 672.0

Season ke - 10

Jarak Terkecil adalah : 672.0

Season ke - 11

Jarak Terkecil adalah : 672.0

Season ke - 12

Jarak Terkecil adalah : 672.0

Season ke - 13

Jarak Terkecil adalah : 672.0

Season ke - 14

Jarak Terkecil adalah : 672.0

Season ke - 15

Jarak Terkecil adalah : 672.0

Season ke - 16

Jarak Terkecil adalah : 672.0

Season ke - 17

Jarak Terkecil adalah : 672.0

Season ke - 18

Jarak Terkecil adalah : 672.0

Season ke - 19

Jarak Terkecil adalah : 672.0

Season ke - 20

Jarak Terkecil adalah : 672.0

Season ke - 21

Jarak Terkecil adalah : 672.0

Season ke - 22

Jarak Terkecil adalah : 672.0

Season ke - 23

Jarak Terkecil adalah : 672.0

Season ke - 24

Jarak Terkecil adalah : 672.0

Season ke - 25

Jarak Terkecil adalah : 672.0

Season ke - 26

Jarak Terkecil adalah : 672.0

Season ke - 27

Jarak Terkecil adalah : 672.0

Season ke - 28

Jarak Terkecil adalah : 672.0

Season ke - 29

Jarak Terkecil adalah : 672.0

Season ke - 30

Jarak Terkecil adalah : 672.0

Season ke - 31

Jarak Terkecil adalah : 672.0

Season ke - 32

Jarak Terkecil adalah : 672.0

Season ke - 33

Jarak Terkecil adalah : 672.0

Season ke - 34

Jarak Terkecil adalah : 672.0

Season ke - 35

Jarak Terkecil adalah : 672.0

Season ke - 36

Jarak Terkecil adalah : 672.0

Season ke - 37

Jarak Terkecil adalah : 672.0

Season ke - 38

Jarak Terkecil adalah : 672.0

Season ke - 39

Jarak Terkecil adalah : 672.0

Season ke - 40

Jarak Terkecil adalah : 672.0

Season ke - 41

Jarak Terkecil adalah : 672.0

Season ke - 42

Jarak Terkecil adalah : 672.0

Season ke - 43

Jarak Terkecil adalah : 672.0

Season ke - 44

Jarak Terkecil adalah : 672.0

Season ke - 45

Jarak Terkecil adalah : 672.0

Season ke - 46

Jarak Terkecil adalah : 672.0

Season ke - 47

Jarak Terkecil adalah : 672.0

Season ke - 48

Jarak Terkecil adalah : 672.0

Season ke - 49

Jarak Terkecil adalah : 672.0

Season ke - 50

Jarak Terkecil adalah : 672.0

Koordinat Super Star Player =

-42.24 38.22 -0.60 2.05 -1.15 -42.08 -17.82 -16.06 -9.20 -1.01 43.75 7.43 70.52 0.83 -12.49 672.00

Jarak Terkecil adalah : 672.0

Solusi :

Fitness terkecil : 672

Pemain ke 1

Atribut Pemain : -42.24 38.22 -0.60 2.05 -1.15 -42.08 -17.82 -16.06 -9.20 -1.01 43.75 7.43 70.52 0.83 -12.49

Rute saat itu :

Rute 1 : Depot 22 9 6 13 17 7 Depot

Rute 2 : Depot 14 15 11 24 19 1 3 Depot

Rute 3 : Depot 8 23 30 12 28 26 Depot

Rute 4 : Depot 29 4 5 25 18 16 21 Depot

Rute 5 : Depot 20 27 10 2 Depot

Process finished with exit code 0