Model's parameters: {'optimizer': 'sgd', 'total\_images\_per\_class': 10000, 'ratio': 0.8, 'batch\_size': 32, 'num\_epochs': 20, 'lr': 0.01, 'es\_min\_delta': 0.0, 'es\_patience': 3, 'data\_path': 'data', 'log\_path': 'tensorboard', 'saved\_path': 'trained\_models'}Epoch: 1/20

Test loss: 0.3688984215259552 Test accuracy: 0.8994997498749374

Test confusion matrix:

[[1909 2 3 5 4 9 3 1 16 12 2 3 1 14

1 1 1 1 9 2]

[ 2 1648 33 1 7 130 69 10 9 1 3 6 0 40

1 4 1 29 4 1]

[ 3 14 1767 1 10 19 2 2 72 7 10 12 6 14

23 9 3 8 9 8]

[ 22 2 0 1800 2 51 9 0 2 20 22 11 9 5

8 1 1 9 11 14]

[ 30 6 11 0 1698 20 0 3 88 9 2 53 2 39

3 1 3 2 17 12]

[ 10 20 4 8 0 1782 44 10 34 6 6 22 11 14

4 4 3 6 6 5]

[ 2 31 1 1 1 67 1823 2 7 3 4 9 0 3

5 3 0 33 3 1]

[ 2 11 5 2 3 12 2 1919 2 0 2 5 0 20

4 3 1 0 5 1]

[ 7 7 32 1 13 31 0 3 1815 12 3 15 1 27

12 1 0 4 14 1]

[ 13 2 12 5 1 5 0 0 55 1762 1 8 1 38

79 2 0 0 13 2]

[ 3 3 3 1 1 16 3 0 15 8 1752 10 9 11

21 7 23 31 55 27]

[ 13 2 4 2 12 55 13 2 27 9 3 1786 7 25

10 8 0 2 17 2]

[ 2 1 1 17 2 16 1 0 7 2 11 2 1885 29

6 5 0 0 4 8]

[ 4 4 5 6 5 27 11 2 23 11 7 10 24 1764

14 28 1 7 34 12]

[ 6 1 11 2 3 4 1 3 29 61 13 7 8 45

1732 31 1 3 32 6]

[ 2 3 7 1 6 6 1 1 13 3 8 4 3 28

42 1800 0 3 63 5]

[ 5 9 4 0 7 33 11 3 12 1 19 2 0 0

3 2 1875 3 6 4]

[ 0 21 0 3 2 10 12 0 8 0 7 1 1 8

6 1 1 1906 10 2]

[ 2 1 5 6 4 8 3 1 24 19 29 12 14 41

31 11 1 8 1760 19]

[ 0 1 0 3 7 8 0 1 8 0 50 11 20 15

23 14 9 7 43 1779]]

Epoch: 2/20

Test loss: 0.33385518193244934 Test accuracy: 0.9093546773386694

Test confusion matrix:

[[1930 1 2 4 5 7 3 2 6 5 3 3 1 14

3 1 0 0 7 2]

[ 6 1714 20 6 5 136 30 1 3 1 4 8 1 55

1 2 0 2 3 1]

[ 5 19 1771 2 13 19 1 7 46 14 7 6 7 29

21 10 4 2 10 6]

[ 26 6 1 1871 3 14 4 0 1 8 14 7 10 7

5 1 0 3 15 3]

[ 47 6 16 1 1793 15 0 0 28 15 2 21 1 24

3 3 1 0 11 12]

[ 10 16 9 10 5 1820 17 6 17 10 6 20 15 19

11 1 2 1 4 0]

[ 4 45 3 4 2 108 1775 2 1 2 5 20 2 16

2 1 2 2 2 1]

[ 2 16 2 1 2 26 1 1910 3 2 1 4 0 20

1 2 0 0 4 2]

[ 9 6 34 3 18 36 0 1 1779 27 2 12 4 43

15 1 0 0 9 0]

[ 16 3 7 5 5 4 0 1 5 1839 2 4 4 36

50 2 0 0 16 0]

[ 6 6 5 7 6 26 1 0 7 9 1755 4 19 10

19 5 23 4 52 35]

[ 20 10 7 3 24 28 3 2 11 11 2 1803 7 37

12 3 0 1 14 1]

[ 3 2 0 12 1 11 0 0 2 1 4 3 1912 28

6 1 0 0 4 9]

[ 3 5 3 4 7 21 2 1 7 11 9 9 36 1830

9 19 0 1 16 6]

[ 9 4 14 4 1 8 1 4 13 73 18 8 13 45

1735 16 0 0 32 1]

[ 2 2 6 3 9 4 2 4 3 3 6 2 5 46

28 1837 0 0 33 4]

[ 7 5 3 1 8 23 5 5 2 1 15 2 0 5

5 3 1894 0 8 7]

[ 0 44 13 7 1 25 18 2 9 1 19 3 3 13

7 1 0 1818 10 5]

[ 6 3 6 4 11 9 1 1 9 13 31 2 22 66

17 19 2 0 1766 11]

[ 1 5 3 5 15 3 1 1 4 1 22 4 26 22

22 11 3 0 46 1804]]

Epoch: 3/20

Test loss: 0.30938029289245605 Test accuracy: 0.9166083041520761

Test confusion matrix:

[[1924 1 1 8 12 5 3 1 9 12 2 1 0 6

1 0 0 0 10 3]

[ 2 1694 27 9 7 99 36 3 3 2 7 20 3 39

3 2 1 32 9 1]

[ 6 11 1763 4 10 8 0 1 65 11 17 8 5 15

19 9 6 5 28 8]

[ 9 2 0 1865 4 15 1 0 3 16 22 3 3 5

5 0 0 3 34 9]

[ 16 3 9 1 1839 7 0 2 48 5 2 7 0 12

4 2 7 0 21 14]

[ 11 10 4 14 6 1799 34 4 31 11 4 13 9 12

8 2 4 2 18 3]

[ 4 19 3 5 2 43 1835 3 5 2 10 18 2 7

2 1 3 23 9 3]

[ 2 9 5 2 6 12 1 1918 2 3 2 7 0 12

2 3 0 0 11 2]

[ 8 2 10 2 18 15 0 2 1840 20 2 8 1 28

12 2 2 2 24 1]

[ 5 0 6 2 5 2 0 1 10 1883 2 6 0 10

29 2 0 0 34 2]

[ 1 0 1 4 5 14 1 2 9 5 1791 5 3 9

12 1 22 5 65 44]

[ 13 5 3 7 45 53 3 2 18 9 4 1762 6 20

9 4 1 2 30 3]

[ 0 3 0 15 2 12 0 0 4 2 5 3 1876 26

4 2 0 0 25 20]

[ 4 3 3 3 13 17 1 1 5 18 6 9 17 1792

10 21 1 3 57 15]

[ 9 2 3 2 5 7 1 3 16 101 25 8 11 26

1665 8 1 1 87 18]

[ 2 0 7 2 5 4 1 3 3 1 12 1 2 16

9 1854 1 1 68 7]

[ 4 2 3 0 2 12 1 3 6 1 20 2 0 1

1 3 1917 1 11 9]

[ 0 5 1 4 3 9 6 0 9 0 17 2 1 6

5 0 1 1902 22 6]

[ 3 1 0 1 9 6 0 1 14 9 33 3 3 18

8 12 3 2 1858 15]

[ 0 1 0 2 6 1 0 0 1 1 20 4 4 16

7 7 5 0 55 1869]]

Epoch: 4/20

Test loss: 0.27805930376052856 Test accuracy: 0.9240620310155078

Test confusion matrix:

[[1918 2 3 7 10 3 2 2 9 9 0 7 1 9

3 0 0 0 11 3]

[ 1 1835 11 5 6 35 24 4 4 3 6 5 2 27

6 6 0 14 1 4]

[ 4 16 1810 3 14 8 1 2 33 7 14 4 6 14

24 8 3 7 11 10]

[ 7 5 1 1882 4 9 2 0 4 13 15 7 6 4

8 0 0 8 15 9]

[ 13 8 17 0 1845 3 0 0 34 6 2 31 0 4

1 3 2 0 13 17]

[ 7 35 11 13 4 1760 29 6 33 4 9 25 9 12

9 2 11 3 10 7]

[ 2 46 2 2 0 44 1831 2 3 2 13 13 0 7

3 2 2 17 3 5]

[ 0 19 6 2 6 8 1 1917 2 2 3 8 1 11

2 4 0 1 4 2]

[ 7 9 31 2 17 12 0 3 1824 13 5 19 2 18

18 3 0 4 9 3]

[ 6 4 11 2 8 1 0 0 10 1832 4 5 1 12

72 0 1 0 27 3]

[ 1 7 3 5 3 9 0 3 9 5 1830 14 2 9

19 2 7 9 28 34]

[ 7 11 3 6 23 14 2 2 13 12 4 1838 10 13

12 3 1 3 17 5]

[ 1 5 1 13 2 6 0 0 2 2 3 2 1899 19

9 5 0 0 11 19]

[ 3 13 7 3 8 9 2 0 10 14 16 23 21 1781

15 18 0 2 29 25]

[ 5 5 12 4 4 2 1 3 17 42 20 12 8 21

1788 14 0 1 22 18]

[ 0 3 7 3 8 2 2 2 4 4 8 2 1 14

24 1863 0 0 44 8]

[ 1 8 4 2 3 7 1 0 4 1 35 3 0 0

3 3 1903 1 7 13]

[ 0 14 1 6 3 5 6 0 9 1 18 2 3 6

6 0 0 1904 9 6]

[ 2 3 4 4 11 4 1 0 14 11 35 7 8 26

27 15 2 3 1797 25]

[ 1 3 1 1 6 0 0 0 3 1 31 7 5 11

7 5 2 1 27 1887]]

Epoch: 5/20

Test loss: 0.28628459572792053 Test accuracy: 0.9235867933966984

Test confusion matrix:

[[1937 0 4 3 17 1 5 1 9 4 1 5 0 4

1 2 0 0 1 4]

[ 2 1814 19 5 11 38 52 3 4 2 6 9 1 16

2 2 2 9 2 0]

[ 6 17 1827 4 21 6 5 0 27 7 11 6 5 10

15 12 7 5 4 4]

[ 16 4 2 1887 4 13 6 0 0 7 17 11 2 1

5 1 1 7 6 9]

[ 9 5 13 2 1894 1 1 0 26 4 3 16 1 3

3 2 2 0 3 11]

[ 6 30 14 9 7 1780 37 7 27 5 5 30 6 6

8 4 6 7 3 2]

[ 2 28 3 2 3 42 1863 0 4 1 7 8 0 3

2 3 5 21 1 1]

[ 2 14 11 0 7 11 4 1919 4 2 2 6 0 6

2 1 2 2 4 0]

[ 5 7 34 3 35 8 1 0 1835 10 4 21 1 9

13 4 0 3 6 0]

[ 12 2 17 9 8 2 1 0 21 1828 0 15 1 15

50 3 0 1 13 1]

[ 4 5 4 4 5 10 6 3 14 7 1836 9 2 3

9 9 24 11 11 23]

[ 5 5 3 6 40 18 6 1 18 8 1 1855 2 8

6 4 3 2 7 1]

[ 1 3 1 39 7 14 3 0 4 1 12 8 1843 20

7 5 1 0 7 23]

[ 7 12 15 6 17 7 10 1 19 12 13 38 18 1757

8 28 2 1 10 18]

[ 9 5 29 3 9 6 1 4 24 54 17 19 3 22

1741 15 1 7 15 15]

[ 0 2 10 3 12 5 5 0 4 4 5 3 2 16

13 1884 5 1 21 4]

[ 2 2 3 0 7 9 2 3 6 1 22 6 0 2

3 2 1918 1 4 6]

[ 0 17 1 0 3 5 21 1 12 0 20 1 2 2

5 1 3 1900 2 3]

[ 4 1 4 14 22 8 6 1 19 12 34 10 2 22

14 36 12 13 1746 19]

[ 1 2 3 7 15 0 2 1 4 0 38 7 4 7

5 5 11 1 25 1861]]

Epoch: 6/20

Test loss: 0.2798745632171631 Test accuracy: 0.9259629814907454

Test confusion matrix:

[[1900 0 0 12 19 13 3 0 11 13 0 8 3 5

3 0 0 1 7 1]

[ 1 1825 11 7 10 43 39 7 1 2 3 22 1 11

2 2 1 7 3 1]

[ 5 33 1809 5 23 10 3 3 19 8 12 7 6 5

20 5 4 5 14 3]

[ 3 5 2 1904 3 11 2 0 2 12 8 9 6 5

3 0 0 5 9 10]

[ 8 2 12 1 1908 5 0 0 15 4 1 23 1 5

4 1 1 0 5 3]

[ 3 28 10 14 11 1805 36 9 11 10 1 35 11 3

5 1 0 2 3 1]

[ 1 29 2 7 3 30 1870 1 2 2 4 13 1 3

2 3 3 13 5 5]

[ 2 11 8 2 10 8 2 1924 2 3 1 9 1 7

2 0 0 1 4 2]

[ 5 5 38 2 42 19 0 2 1807 17 1 32 2 8

6 2 0 3 8 0]

[ 3 1 14 3 10 4 0 0 6 1904 3 15 1 8

18 0 0 0 9 0]

[ 3 1 4 6 7 14 5 3 11 6 1780 22 4 8

12 4 23 14 41 31]

[ 4 7 6 5 23 17 9 3 8 8 2 1868 6 10

7 1 1 1 10 3]

[ 0 6 1 17 4 8 0 0 2 2 3 8 1911 13

5 0 2 0 5 12]

[ 2 8 8 6 17 16 3 3 8 21 7 47 26 1763

16 11 1 5 17 14]

[ 3 2 15 8 9 9 1 3 15 112 13 31 10 15

1708 9 0 4 24 8]

[ 0 0 5 5 17 3 1 3 3 5 4 4 6 23

18 1853 2 1 44 2]

[ 0 6 3 3 5 13 4 1 5 2 15 3 0 1

3 1 1918 3 7 6]

[ 0 19 1 3 4 9 9 1 7 1 9 8 3 3

5 0 1 1906 8 2]

[ 1 2 3 12 26 10 0 1 7 23 18 14 12 27

16 9 2 3 1800 13]

[ 1 2 0 5 25 2 1 0 1 1 16 7 13 14

4 6 7 1 36 1857]]

Epoch: 7/20

Test loss: 0.27765175700187683 Test accuracy: 0.9258129064532266

Test confusion matrix:

[[1920 1 3 8 6 7 4 1 9 6 0 4 1 9

4 1 0 5 9 1]

[ 1 1874 6 2 0 27 30 7 3 1 4 4 1 15

2 5 0 13 2 2]

[ 5 38 1811 5 5 11 2 3 28 3 14 2 3 11

23 6 4 6 12 7]

[ 10 11 1 1896 0 9 2 0 2 7 14 7 0 3

7 0 0 9 9 12]

[ 21 11 19 0 1827 12 1 2 25 1 3 17 0 17

7 1 4 2 15 14]

[ 5 47 7 14 2 1761 52 15 17 4 5 20 4 10

12 3 2 9 7 3]

[ 2 46 3 1 0 24 1866 2 3 0 6 7 0 2

4 1 3 24 2 3]

[ 0 12 7 1 2 7 2 1930 6 2 2 4 0 8

2 1 2 2 6 3]

[ 6 9 29 3 9 18 1 6 1831 9 5 14 1 13

18 3 0 7 15 2]

[ 4 5 20 5 3 3 0 1 20 1824 3 8 0 9

67 1 1 2 19 4]

[ 2 5 6 5 2 9 4 2 14 4 1823 9 0 11

13 4 17 25 20 24]

[ 7 22 14 7 12 17 6 8 18 4 3 1813 5 21

14 5 3 5 14 1]

[ 2 6 2 36 1 9 2 0 4 2 10 0 1829 37

13 3 1 2 14 26]

[ 4 24 6 7 2 12 5 7 13 8 10 10 4 1808

12 17 1 6 27 16]

[ 7 2 17 4 0 5 2 5 15 33 17 4 1 23

1815 10 0 6 22 11]

[ 0 4 11 4 3 3 4 4 2 1 8 1 1 19

20 1866 4 2 37 5]

[ 1 8 4 1 1 16 4 2 2 0 15 3 0 1

3 1 1920 2 4 11]

[ 0 18 5 3 1 10 10 0 9 0 7 0 0 4

5 1 1 1915 7 3]

[ 1 3 6 11 9 2 1 1 8 8 35 7 4 29

17 20 4 6 1805 22]

[ 1 3 2 10 4 0 0 0 2 0 31 1 3 12

10 5 4 2 29 1880]]

Epoch: 8/20

Test loss: 0.281890869140625 Test accuracy: 0.9255877938969485

Test confusion matrix:

[[1923 0 1 5 7 2 3 0 13 7 0 9 6 11

5 1 0 0 3 3]

[ 0 1755 34 6 7 54 18 34 3 1 7 16 6 32

4 10 1 6 3 2]

[ 6 6 1795 2 15 13 0 6 41 10 13 9 9 19

18 15 3 4 12 3]

[ 13 6 1 1892 3 6 1 0 2 8 4 9 17 9

3 0 0 3 17 5]

[ 12 3 11 1 1852 6 0 0 26 2 2 32 3 14

5 3 4 0 10 13]

[ 6 22 4 11 4 1791 27 9 25 7 3 22 25 12

11 4 3 3 6 4]

[ 2 41 1 5 0 46 1834 7 5 1 5 17 1 10

3 5 1 8 4 3]

[ 1 4 4 2 2 8 1 1934 4 2 2 8 2 10

1 3 0 1 8 2]

[ 3 3 11 3 18 9 0 5 1842 21 3 18 4 20

19 7 0 0 11 2]

[ 6 1 5 6 1 1 0 2 11 1862 1 8 5 29

48 1 0 0 9 3]

[ 3 0 1 4 3 9 3 3 12 4 1791 14 6 8

32 13 19 10 30 34]

[ 6 2 1 4 9 18 3 2 18 9 2 1862 14 24

7 4 1 2 7 4]

[ 2 2 0 7 2 6 0 1 4 2 3 1 1929 16

7 3 0 0 6 8]

[ 1 4 6 4 5 5 2 8 13 10 5 24 37 1811

8 28 1 0 15 12]

[ 4 0 5 1 2 6 0 4 20 48 8 9 7 46

1772 32 0 1 25 9]

[ 0 0 4 2 7 1 0 4 2 3 7 4 3 22

11 1902 1 0 23 3]

[ 2 2 3 2 1 10 1 4 8 1 17 4 0 4

4 3 1918 1 4 10]

[ 0 19 3 1 2 15 6 1 11 2 12 6 5 5

6 4 1 1884 8 8]

[ 1 1 4 5 8 2 0 3 15 14 26 8 15 47

18 26 2 2 1788 14]

[ 1 1 0 5 11 0 0 4 3 1 14 11 12 17

6 12 0 0 33 1868]]

Epoch: 9/20

Test loss: 0.2853103280067444 Test accuracy: 0.9228864432216108

Test confusion matrix:

[[1920 1 4 7 6 3 3 2 9 11 0 8 0 9

6 0 0 0 9 1]

[ 1 1793 19 3 3 61 37 15 0 4 3 17 0 26

5 4 0 2 6 0]

[ 4 15 1830 5 3 10 1 3 21 14 11 7 3 16

23 10 3 2 16 2]

[ 7 7 2 1894 2 7 2 2 2 5 8 10 15 6

5 0 0 2 19 4]

[ 16 6 20 0 1807 15 0 2 29 13 3 47 2 12

5 0 5 0 14 3]

[ 4 23 12 14 2 1811 23 16 13 13 2 25 9 11

5 2 4 3 7 0]

[ 2 31 4 2 0 53 1858 3 1 1 5 16 1 4

4 4 1 2 6 1]

[ 0 9 7 1 1 9 1 1931 2 4 3 9 1 9

1 1 2 0 7 1]

[ 7 7 47 2 11 16 2 3 1783 34 6 26 3 19

18 5 1 0 8 1]

[ 6 4 10 12 0 3 1 1 6 1867 3 13 1 12

42 1 0 0 16 1]

[ 2 2 4 9 2 12 4 4 4 8 1788 9 3 12

21 9 28 2 64 12]

[ 6 3 7 9 8 18 8 4 11 16 2 1858 4 13

13 2 2 1 13 1]

[ 0 3 4 12 4 13 1 0 3 4 3 5 1893 19

14 4 0 0 9 8]

[ 2 11 6 9 8 12 1 4 7 15 5 23 20 1807

16 21 0 1 28 3]

[ 10 3 17 3 1 3 0 4 7 65 18 3 4 22

1788 20 0 0 30 1]

[ 0 0 11 2 5 3 1 3 1 4 4 5 2 24

15 1879 0 0 38 2]

[ 1 3 4 6 1 18 2 3 3 0 13 5 0 2

4 3 1919 1 7 4]

[ 0 31 7 8 3 9 19 1 6 3 22 2 3 9

8 4 3 1847 14 0]

[ 1 2 7 6 9 7 1 3 7 13 16 12 8 32

18 25 3 0 1821 8]

[ 1 2 3 8 20 6 0 3 1 1 28 7 17 25

16 11 3 0 44 1803]]

Epoch: 10/20

Test loss: 0.2815753221511841 Test accuracy: 0.9255377688844422

Test confusion matrix:

[[1917 2 1 4 21 4 3 1 9 8 0 6 0 5

4 0 0 4 8 2]

[ 1 1833 18 3 6 8 31 5 1 2 8 12 1 18

5 6 2 33 6 0]

[ 5 14 1816 2 16 7 2 1 36 11 13 7 3 13

21 4 5 5 13 5]

[ 15 7 1 1886 4 2 1 0 1 8 8 11 9 4

6 0 1 17 12 6]

[ 11 8 4 1 1869 7 0 0 22 7 1 24 1 4

5 3 7 1 15 9]

[ 9 69 14 13 6 1664 72 6 19 8 3 34 12 7

14 1 13 27 7 1]

[ 3 29 4 4 1 7 1868 3 2 3 5 13 1 5

5 3 3 36 3 1]

[ 3 16 5 2 12 5 2 1910 1 6 2 9 1 7

2 3 2 4 6 1]

[ 8 13 15 4 32 10 0 2 1823 18 1 17 2 13

15 9 1 3 12 1]

[ 6 4 8 6 8 1 0 0 7 1865 0 9 2 11

54 1 0 1 16 0]

[ 3 3 3 7 3 3 4 2 7 9 1814 9 4 7

23 5 20 14 44 15]

[ 9 12 4 7 21 10 4 2 9 15 3 1853 3 11

11 3 1 7 12 2]

[ 1 5 1 16 4 9 0 0 3 1 6 2 1892 21

10 4 0 1 10 13]

[ 5 20 10 3 9 8 5 1 8 14 5 22 19 1779

16 25 1 7 30 12]

[ 6 4 15 3 7 2 0 3 11 50 15 10 5 9

1810 14 1 1 29 4]

[ 0 2 7 2 7 2 4 1 1 3 9 0 3 15

19 1875 3 1 42 3]

[ 0 5 1 1 4 2 1 2 2 0 16 5 0 1

1 1 1940 5 10 2]

[ 0 9 3 2 5 1 5 0 9 1 5 5 3 4

6 0 1 1928 10 2]

[ 5 4 3 11 14 5 0 1 6 11 23 8 7 22

23 12 3 7 1824 10]

[ 1 2 1 4 16 1 0 1 1 2 32 8 8 8

11 8 8 2 48 1837]]

Epoch: 11/20

Test loss: 0.28598207235336304 Test accuracy: 0.9273386693346674

Test confusion matrix:

[[1917 2 1 7 9 6 3 1 9 5 0 8 2 8

6 0 0 1 12 2]

[ 4 1776 19 7 3 36 73 6 0 1 9 14 4 14

4 3 1 21 3 1]

[ 5 19 1785 4 19 10 1 7 40 7 17 7 6 9

21 14 3 6 16 3]

[ 5 4 1 1896 1 13 4 0 2 7 11 14 10 1

4 0 1 9 10 6]

[ 10 3 7 0 1882 14 0 2 18 1 1 28 2 10

5 4 3 0 5 4]

[ 4 28 4 13 5 1797 44 7 17 6 5 28 7 1

9 2 8 9 4 1]

[ 2 20 2 1 2 21 1890 3 2 2 9 12 2 3

2 1 3 16 4 2]

[ 1 10 6 2 3 10 2 1926 0 4 3 10 1 8

2 3 1 3 2 2]

[ 7 5 12 4 27 25 0 2 1835 12 5 19 3 13

13 4 1 2 8 2]

[ 8 1 11 6 8 4 0 0 14 1838 7 14 4 5

57 1 0 2 18 1]

[ 2 4 4 5 2 17 3 2 7 5 1828 11 4 6

19 6 15 7 26 26]

[ 4 3 5 8 26 20 4 2 9 3 5 1860 5 17

8 2 2 4 11 1]

[ 1 3 1 10 3 10 1 0 3 1 4 4 1924 7

6 3 1 1 10 6]

[ 3 9 6 5 7 19 4 5 11 11 14 30 35 1744

18 25 2 3 31 17]

[ 5 2 7 2 6 10 2 4 23 33 19 12 8 9

1823 5 0 3 24 2]

[ 0 0 7 2 13 3 2 4 1 1 8 3 3 11

25 1876 2 1 32 5]

[ 0 2 4 2 9 17 5 2 3 0 25 4 0 0

3 1 1910 2 5 5]

[ 0 7 5 2 7 9 13 0 6 1 14 2 3 2

7 2 1 1912 5 1]

[ 2 2 3 6 16 11 1 2 12 12 35 9 7 11

26 17 4 4 1809 10]

[ 1 1 1 3 25 2 0 1 2 0 28 10 14 9

8 7 6 1 33 1847]]