

# Data Description for “Interday Forecasting and Intraday Updating of Call Center Arrivals”

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**Any user of the data should cite the above paper.**

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This note describes the data analyzed in the paper. The data were gathered at an inbound call center of a major northeastern US financial firm between January 1 and October 26, 2003. We consider the 42 whole 5-day weeks between January 6 and October 24.

The data contain ten obvious abnormal days:

- six holidays with very low call volumes,
- four days with no data.

We exclude them from our analysis; hence the final data consist of 200 weekdays.

For a particular day, we divide the 17-hour operating period (7am - midnight) into sixty-eight 15-minute intervals, and the data record the number of calls arriving to the service queue during each interval.

The following three files are hosted by the MSOM website:

- **date.txt** gives the date for the 200 days.
- **weekday.txt** contains the corresponding day of the week, Monday=1, ..., Friday=5.
- **data.txt** contains the number of calls during each 15-minute interval between 7am and midnight for each day.

The data matrix is  $200 \times 68$ . The entries are comma delimited. Each row corresponds to one day, while each column corresponds to one 15-minute interval.

**date.txt**

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**data.txt**

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232,208,249,324,599,725,932,1029,1524,1761,1897,1906,1887,1894,1926,1937,2001,19  
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259,261,272,377,572,683,812,951,1218,1424,1540,1549,1631,1641,1663,1671,1597,161  
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257,192,259,296,513,628,759,871,1215,1308,1417,1538,1507,1448,1450,1440,1518,148  
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314,283,317,361,631,720,878,1036,1392,1511,1637,1655,1589,1706,1653,1579,1589,15  
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258,256,313,362,661,793,984,1165,1646,1738,1883,1858,1989,2071,1984,1940,1917,19  
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299,254,306,372,583,635,831,995,1235,1394,1539,1565,1590,1615,1542,1624,1530,146  
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354,256,333,388,658,718,919,1041,1469,1584,1739,1743,1713,1712,1729,1719,1655,16  
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243,292,272,370,534,625,825,921,1212,1324,1521,1505,1440,1449,1530,1539,1415,148  
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292,221,271,305,517,568,707,878,1152,1347,1459,1427,1418,1492,1433,1539,1497,145  
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209,214,253,303,542,683,841,952,1399,1525,1752,1729,1834,1853,1803,1724,1646,169  
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304,240,325,367,563,678,846,995,1353,1479,1623,1668,1639,1634,1655,1659,1630,159  
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208,205,265,357,636,744,999,1147,1546,1685,1908,1894,1903,1842,1853,1863,1814,17  
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315,277,319,391,569,686,919,1008,1317,1518,1666,1610,1671,1677,1662,1545,1558,15  
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278,279,262,320,588,618,757,924,1183,1394,1567,1438,1484,1623,1539,1547,1498,151  
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295,279,249,247,225,199,179,165,202,166,148,134,141,92,92  
282,266,294,351,497,630,705,961,1237,1331,1481,1466,1521,1526,1506,1478,1496,147  
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322,314,330,385,710,843,994,1159,1641,1676,1870,1919,1952,1948,1806,1919,1884,18  
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302,265,333,406,656,741,867,993,1338,1537,1557,1572,1437,1668,1637,1699,1513,156  
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9,1352,1373,1213,1235,1051,971,787,760,749,597,538,516,467,401,400,345,313,337,24  
4,231,212,218,188,222,191,152,164,156,127,120,108,106,96,77

265,245,269,345,647,716,890,1028,1407,1685,1809,1735,1830,1888,1901,1776,1802,1800,1732,1730,1624,1709,1570,1540,1568,1551,1605,1590,1663,1596,1550,1548,1491,1520,1523,1442,1394,1326,1193,1061,975,863,780,683,646,645,615,600,511,531,482,464,383,357,336,321,310,307,263,252,228,191,204,201,183,116,93,76  
269,290,268,378,588,679,824,948,1308,1511,1602,1578,1612,1635,1610,1580,1615,1629,1457,1517,1430,1426,1350,1451,1372,1339,1366,1378,1362,1363,1456,1399,1269,1281,1299,1195,1233,1139,1031,969,793,746,675,596,550,590,466,484,443,398,374,380,320,297,270,306,248,250,275,216,216,220,202,151,156,110,91,101  
295,261,340,310,524,615,740,938,1210,1342,1418,1466,1442,1447,1532,1438,1430,1434,1341,1344,1300,1371,1246,1208,1295,1287,1299,1283,1218,1343,1244,1280,1265,1272,1268,1143,1077,1090,922,913,813,682,617,562,550,542,541,448,378,398,379,371,330,356,318,304,301,269,228,232,204,203,177,151,145,139,91,100  
261,289,265,309,509,613,721,878,1108,1301,1426,1393,1439,1445,1368,1397,1337,1441,1403,1399,1248,1309,1345,1214,1310,1284,1278,1349,1219,1278,1259,1303,1249,1200,1234,1193,1174,1101,993,874,768,707,696,690,546,543,484,469,453,398,409,359,321,254,256,270,226,248,252,188,177,171,175,124,115,111,78,95  
275,272,309,326,550,664,790,916,1205,1315,1488,1483,1544,1531,1746,1606,1572,1550,1503,1531,1492,1459,1427,1459,1378,1315,1356,1394,1374,1385,1397,1387,1354,1336,1398,1354,1222,1233,1092,1044,841,819,682,617,550,546,478,454,400,376,353,293,263,271,220,201,201,190,204,189,183,154,128,153,90,93,84,63  
186,217,229,324,520,615,872,1052,1377,1576,1646,1783,1661,1760,1739,1804,2051,1965,1745,1729,1675,1696,1625,1614,1767,1704,1564,1705,1660,1579,1546,1514,1621,1594,1490,1560,1450,1372,1255,1116,974,913,813,706,666,651,553,516,515,467,442,422,411,345,321,310,304,329,309,266,266,246,235,212,197,145,123,101  
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277,251,267,337,511,569,786,943,1214,1405,1424,1527,1438,1456,1457,1498,1420,1421,1394,1391,1401,1396,1298,1247,1252,1222,1342,1298,1288,1269,1292,1262,1164,1157,1217,1217,1116,1044,995,919,759,739,621,589,511,480,482,487,455,401,352,355,331,274,297,258,229,233,241,198,196,190,187,139,145,104,100,93  
283,245,275,337,509,589,750,890,1160,1338,1461,1404,1394,1472,1428,1493,1357,1471,1383,1364,1320,1360,1315,1276,1226,1236,1308,1342,1303,1280,1198,1277,1210,1266,1171,1257,1124,1163,1094,965,802,706,713,620,559,540,477,469,423,406,412,338,284,296,275,280,251,247,230,196,208,180,179,161,129,116,122,84  
210,232,234,312,584,663,923,1040,1407,1631,1714,1774,1752,1704,1721,1754,1726,1783,1718,1692,1668,1607,1634,1618,1536,1502,1583,1622,1619,1620,1544,1504,1576,1581,1398,1476,1315,1264,1189,1115,912,811,764,681,644,673,602,569,534,495,480,437,426,405,384,345,329,294,307,242,244,219,209,168,156,142,126,101  
343,284,306,385,612,741,866,1021,1314,1516,1553,1563,1644,1585,1691,1506,1447,1738,1700,1646,1591,1469,1455,1432,1400,1456,1361,1273,1304,1289,1166,1171,1199,1100,1179,1244,1065,1024,913,921,890,737,699,688,585,598,502,478,465,480,421,376,335,300,336,346,320,308,308,262,241,199,180,173,174,133,108,98  
383,302,338,412,606,733,851,949,1327,1440,1491,1480,1611,1548,1536,1597,1577,1585,1519,1478,1509,1383,1455,1395,1441,1393,1420,1349,1407,1291,1385,1372,1252,130

8,1311,1279,1159,1204,1056,997,818,735,702,626,563,562,513,482,438,424,397,417,34  
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284,253,324,354,540,665,806,949,1208,1411,1456,1525,1537,1570,1491,1501,1506,150  
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3,1361,1324,1228,1133,1078,993,902,782,669,677,579,571,490,506,426,437,408,398,32  
4,319,283,275,276,259,250,230,227,205,161,162,151,113,110,86  
389,369,359,461,677,770,901,1098,1408,1505,1644,1625,1585,1561,1639,1670,1605,16  
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63,220,261,217,191,214,223,180,169,143,153,132,127,98,88,79  
200,205,243,318,544,656,866,974,1364,1624,1592,1699,1770,1808,1751,1775,1732,171  
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3,307,328,284,306,265,274,240,230,203,181,146,150,110,114,97  
258,240,278,333,558,643,752,912,1281,1391,1463,1455,1471,1522,1626,1592,1588,156  
1,1492,1464,1502,1443,1369,1345,1388,1339,1333,1334,1323,1204,1282,1273,1277,126  
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324,297,292,286,265,245,209,215,214,206,179,137,111,103,86  
279,257,278,326,505,648,761,839,1126,1243,1440,1390,1385,1504,1508,1448,1456,144  
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7,1199,1222,1209,1107,1023,828,714,688,659,609,568,500,489,413,443,429,380,354,32  
0,301,279,269,271,234,227,193,212,201,167,136,130,97,94,83  
240,234,288,342,494,639,767,900,1197,1369,1412,1398,1459,1556,1447,1433,1535,146  
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262,261,296,332,507,634,793,875,1183,1396,1423,1472,1433,1520,1526,1577,1432,146  
9,1469,1483,1394,1375,1335,1332,1329,1349,1387,1294,1372,1251,1393,1384,1396,133  
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35,240,247,188,208,157,183,181,142,122,142,120,90,97,81,78  
222,220,267,307,545,717,850,1050,1455,1637,1787,1778,1771,1845,1884,1784,1769,17  
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429,348,385,345,315,342,277,236,262,223,169,173,164,142,122,93  
314,291,347,376,624,752,935,1062,1383,1477,2153,1842,1813,1837,1871,1848,1821,17  
91,1684,1697,1623,1672,1524,1480,1511,1567,1505,1580,1487,1494,1489,1451,1396,13  
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82,1309,1284,1187,1148,1048,1039,821,829,720,621,513,512,454,471,377,451,401,400,  
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352,338,309,455,692,727,947,1010,1315,1465,1600,1640,1604,1635,1523,1542,1540,14  
74,1531,1449,1380,1412,1404,1392,1400,1333,1393,1333,1323,1382,1349,1380,1319,12  
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180,181,209,269,525,655,843,966,1408,1632,1722,1772,1798,1684,1708,1760,1710,169  
6,1648,1679,1709,1611,1602,1598,1537,1601,1526,1505,1506,1612,1603,1521,1588,148  
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261,204,255,302,474,607,768,902,1250,1479,1565,1645,1641,1587,1575,1628,1805,158  
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257,206,272,326,504,588,748,915,1199,1341,1476,1525,1492,1565,1637,1505,1493,157  
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5,296,274,265,256,262,236,194,180,162,172,162,141,124,82,95  
281,288,275,387,547,629,801,965,1201,1298,1450,1430,1536,1598,1569,1510,1464,150  
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