

module3_exo3_exerciceRomina

January 15, 2022

```
[1]: import requests
response = requests.get("https://scrippsco2.ucsd.edu/assets/data/atmospheric/
↳stations/in_situ_co2/monthly/monthly_in_situ_co2_mlo.csv")
raw_text = response.text
raw_lines = raw_text.splitlines()

raw_lines_data = [line for line in raw_lines if not line.startswith('')]

data = raw_lines_data[3:]

for i in range(780):
    print(data[i])
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1958, 01, 21200, 1958.0411, -99.99, -99.99, -99.99, -99.99,
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1958, 04, 21290, 1958.2877, 317.45, 315.16, 317.30, 314.99,
317.45, 315.16
1958, 05, 21320, 1958.3699, 317.51, 314.71, 317.87, 315.07,
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1958, 06, 21351, 1958.4548, -99.99, -99.99, 317.25, 315.15,
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1958, 07, 21381, 1958.5370, 315.86, 315.20, 315.86, 315.22,
315.86, 315.20
1958, 08, 21412, 1958.6219, 314.93, 316.20, 313.98, 315.29,
314.93, 316.20
1958, 09, 21443, 1958.7068, 313.21, 316.09, 312.46, 315.36,
313.21, 316.09
1958, 10, 21473, 1958.7890, -99.99, -99.99, 312.44, 315.41,
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1958, 11, 21504, 1958.8740, 313.33, 315.20, 313.61, 315.46,
313.33, 315.20
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1959, 03,	21624,	1959.2027,	316.65,	315.37,	316.99,	315.70,
316.65,	315.37					
1959, 04,	21655,	1959.2877,	317.72,	315.41,	318.09,	315.77,
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1959, 05,	21685,	1959.3699,	318.29,	315.48,	318.66,	315.85,
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1959, 06,	21716,	1959.4548,	318.15,	316.02,	318.05,	315.94,
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1959, 07,	21746,	1959.5370,	316.54,	315.87,	316.67,	316.03,
316.54,	315.87					
1959, 08,	21777,	1959.6219,	314.80,	316.08,	314.81,	316.13,
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1959, 09,	21808,	1959.7068,	313.84,	316.73,	313.31,	316.22,
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1960, 06,	22082,	1960.4563,	319.59,	317.47,	319.03,	316.93,
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1961, 04,	22386,	1961.2877,	319.48,	317.15,	319.76,	317.42,
319.48,	317.15					
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1961, 07,	22477,	1961.5370,	318.56,	317.89,	318.33,	317.68,
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1961, 08,	22508,	1961.6219,	316.79,	318.08,	316.45,	317.77,
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1961, 09,	22539,	1961.7068,	314.99,	317.90,	314.92,	317.85,
314.99,	317.90					
1961, 10,	22569,	1961.7890,	315.31,	318.32,	314.92,	317.92,
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1961, 11,	22600,	1961.8740,	316.10,	317.99,	316.13,	318.00,
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1961, 12,	22630,	1961.9562,	317.01,	317.78,	317.31,	318.06,
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1962, 02,	22692,	1962.1260,	318.55,	317.91,	318.85,	318.20,
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1962, 04,	22751,	1962.2877,	320.57,	318.24,	320.67,	318.33,
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1962, 06,	22812,	1962.4548,	320.62,	318.47,	320.59,	318.45,
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1962, 07,	22842,	1962.5370,	319.61,	318.94,	319.16,	318.51,
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1962, 08,	22873,	1962.6219,	317.40,	318.70,	317.23,	318.56,
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1962, 09,	22904,	1962.7068,	316.24,	319.17,	315.67,	318.61,
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1962, 11,	22965,	1962.8740,	316.69,	318.59,	316.81,	318.68,
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1963, 03,	23085,	1963.2027,	319.86,	318.56,	320.17,	318.86,
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1963, 04,	23116,	1963.2877,	321.38,	319.05,	321.27,	318.91,
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1963, 06,	23177,	1963.4548,	321.48,	319.32,	321.16,	319.02,
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1963, 07,	23207,	1963.5370,	319.74,	319.06,	319.71,	319.06,
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1963, 08,	23238,	1963.6219,	317.77,	319.07,	317.77,	319.11,
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1963, 09,	23269,	1963.7068,	316.21,	319.14,	316.20,	319.15,
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1964, 09,	23635,	1964.7077,	316.71,	319.66,	316.64,	319.61,
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1965, 06,	23908,	1965.4548,	321.87,	319.70,	322.16,	320.00,
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1965, 07,	23938,	1965.5370,	321.21,	320.52,	320.76,	320.10,
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1965, 08,	23969,	1965.6219,	318.87,	320.17,	318.87,	320.21,
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1965, 09,	24000,	1965.7068,	317.82,	320.77,	317.36,	320.33,
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1966, 03,	24181,	1966.2027,	322.39,	321.08,	322.34,	321.01,
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1966, 04,	24212,	1966.2877,	323.70,	321.34,	323.50,	321.13,
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1966, 06,	24273,	1966.4548,	323.75,	321.57,	323.49,	321.32,
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1966, 07,	24303,	1966.5370,	322.38,	321.69,	322.06,	321.41,
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1966, 11,	24426,	1966.8740,	319.78,	321.71,	319.79,	321.69,
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1967, 03,	24546,	1967.2027,	323.04,	321.72,	323.24,	321.91,
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1967, 04,	24577,	1967.2877,	324.42,	322.05,	324.35,	321.96,
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1967, 05,	24607,	1967.3699,	325.00,	322.11,	324.91,	322.02,
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1967, 06,	24638,	1967.4548,	324.09,	321.90,	324.25,	322.08,
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1967, 07,	24668,	1967.5370,	322.54,	321.86,	322.80,	322.14,
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1967, 09,	24730,	1967.7068,	319.25,	322.23,	319.29,	322.28,
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1967, 10,	24760,	1967.7890,	319.39,	322.47,	319.29,	322.35,
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1967, 12,	24821,	1967.9562,	321.96,	322.74,	321.73,	322.50,
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1968, 02,	24883,	1968.1257,	323.15,	322.49,	323.32,	322.66,
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1968, 03,	24912,	1968.2049,	323.89,	322.55,	324.09,	322.74,
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1968, 04,	24943,	1968.2896,	325.02,	322.62,	325.25,	322.83,
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1968, 05,	24973,	1968.3716,	325.57,	322.67,	325.82,	322.93,
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1968, 06,	25004,	1968.4563,	325.36,	323.18,	325.19,	323.04,
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1968, 07,	25034,	1968.5383,	324.14,	323.48,	323.78,	323.14,
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1968, 08,	25065,	1968.6230,	322.11,	323.45,	321.88,	323.26,
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1968, 09,	25096,	1968.7077,	320.33,	323.32,	320.37,	323.37,
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1968, 10,	25126,	1968.7896,	320.25,	323.33,	320.42,	323.49,
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1968, 11,	25157,	1968.8743,	321.32,	323.25,	321.71,	323.62,
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1968, 12,	25187,	1968.9563,	322.89,	323.68,	322.98,	323.75,
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1969, 02,	25249,	1969.1260,	324.41,	323.76,	324.70,	324.03,
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1969, 03,	25277,	1969.2027,	325.63,	324.31,	325.50,	324.17,
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1969, 04,	25308,	1969.2877,	326.66,	324.28,	326.71,	324.31,
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1969, 05,	25338,	1969.3699,	327.38,	324.47,	327.35,	324.44,
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1969, 06,	25369,	1969.4548,	326.71,	324.50,	326.76,	324.58,
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1969, 07,	25399,	1969.5370,	325.88,	325.19,	325.36,	324.69,
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1969, 08,	25430,	1969.6219,	323.66,	324.99,	323.45,	324.81,
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1969, 09,	25461,	1969.7068,	322.38,	325.37,	321.90,	324.91,
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1969, 10,	25491,	1969.7890,	321.78,	324.88,	321.91,	325.00,
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1969, 11,	25522,	1969.8740,	322.85,	324.80,	323.16,	325.08,
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1970, 03,	25642,	1970.2027,	326.93,	325.60,	326.74,	325.40,
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1970, 04,	25673,	1970.2877,	328.13,	325.74,	327.89,	325.48,
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1970, 05,	25703,	1970.3699,	328.08,	325.16,	328.47,	325.56,
328.08,	325.16					
1970, 06,	25734,	1970.4548,	327.67,	325.46,	327.83,	325.63,
327.67,	325.46					
1970, 07,	25764,	1970.5370,	326.34,	325.65,	326.37,	325.71,
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1970, 08,	25795,	1970.6219,	324.68,	326.01,	324.41,	325.78,
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1970, 09,	25826,	1970.7068,	323.10,	326.10,	322.82,	325.84,
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1970, 10,	25856,	1970.7890,	323.07,	326.17,	322.80,	325.89,
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1970, 11,	25887,	1970.8740,	324.01,	325.96,	324.01,	325.93,
324.01,	325.96					

1970, 12,	25917,	1970.9562,	325.13,	325.93,	325.19,	325.97,
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326.17,	326.12					
1971, 02,	25979,	1971.1260,	326.68,	326.02,	326.72,	326.05,
326.68,	326.02					
1971, 03,	26007,	1971.2027,	327.18,	325.84,	327.44,	326.09,
327.18,	325.84					
1971, 04,	26038,	1971.2877,	327.79,	325.38,	328.56,	326.14,
327.79,	325.38					
1971, 05,	26068,	1971.3699,	328.93,	326.00,	329.13,	326.20,
328.93,	326.00					
1971, 06,	26099,	1971.4548,	328.57,	326.35,	328.47,	326.27,
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1971, 07,	26129,	1971.5370,	327.36,	326.66,	327.00,	326.34,
327.36,	326.66					
1971, 08,	26160,	1971.6219,	325.43,	326.76,	325.04,	326.41,
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1971, 09,	26191,	1971.7068,	323.36,	326.38,	323.45,	326.48,
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1971, 10,	26221,	1971.7890,	323.56,	326.68,	323.45,	326.55,
323.56,	326.68					
1971, 11,	26252,	1971.8740,	324.80,	326.75,	324.69,	326.62,
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1971, 12,	26282,	1971.9562,	326.01,	326.81,	325.92,	326.70,
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1972, 01,	26313,	1972.0410,	326.77,	326.72,	326.85,	326.79,
326.77,	326.72					
1972, 02,	26344,	1972.1257,	327.63,	326.97,	327.55,	326.88,
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1972, 03,	26373,	1972.2049,	327.75,	326.39,	328.36,	326.98,
327.75,	326.39					
1972, 04,	26404,	1972.2896,	329.72,	327.29,	329.55,	327.10,
329.72,	327.29					
1972, 05,	26434,	1972.3716,	330.07,	327.13,	330.17,	327.23,
330.07,	327.13					
1972, 06,	26465,	1972.4563,	329.09,	326.88,	329.57,	327.38,
329.09,	326.88					
1972, 07,	26495,	1972.5383,	328.04,	327.37,	328.18,	327.54,
328.04,	327.37					
1972, 08,	26526,	1972.6230,	326.32,	327.69,	326.33,	327.72,
326.32,	327.69					
1972, 09,	26557,	1972.7077,	324.84,	327.87,	324.87,	327.92,
324.84,	327.87					
1972, 10,	26587,	1972.7896,	325.20,	328.32,	325.00,	328.11,
325.20,	328.32					
1972, 11,	26618,	1972.8743,	326.50,	328.46,	326.38,	328.31,
326.50,	328.46					

1972, 12,	26648,	1972.9563,	327.55,	328.35,	327.73,	328.51,
327.55,	328.35					
1973, 01,	26679,	1973.0411,	328.55,	328.50,	328.78,	328.72,
328.55,	328.50					
1973, 02,	26710,	1973.1260,	329.56,	328.90,	329.60,	328.93,
329.56,	328.90					
1973, 03,	26738,	1973.2027,	330.30,	328.96,	330.47,	329.11,
330.30,	328.96					
1973, 04,	26769,	1973.2877,	331.50,	329.08,	331.74,	329.31,
331.50,	329.08					
1973, 05,	26799,	1973.3699,	332.48,	329.53,	332.43,	329.48,
332.48,	329.53					
1973, 06,	26830,	1973.4548,	332.07,	329.84,	331.86,	329.64,
332.07,	329.84					
1973, 07,	26860,	1973.5370,	330.87,	330.17,	330.45,	329.78,
330.87,	330.17					
1973, 08,	26891,	1973.6219,	329.31,	330.65,	328.51,	329.89,
329.31,	330.65					
1973, 09,	26922,	1973.7068,	327.52,	330.56,	326.92,	329.97,
327.52,	330.56					
1973, 10,	26952,	1973.7890,	327.19,	330.33,	326.89,	330.02,
327.19,	330.33					
1973, 11,	26983,	1973.8740,	328.17,	330.13,	328.11,	330.05,
328.17,	330.13					
1973, 12,	27013,	1973.9562,	328.65,	329.45,	329.29,	330.08,
328.65,	329.45					
1974, 01,	27044,	1974.0411,	329.36,	329.31,	330.16,	330.10,
329.36,	329.31					
1974, 02,	27075,	1974.1260,	330.71,	330.05,	330.80,	330.13,
330.71,	330.05					
1974, 03,	27103,	1974.2027,	331.49,	330.14,	331.52,	330.15,
331.49,	330.14					
1974, 04,	27134,	1974.2877,	332.65,	330.23,	332.63,	330.19,
332.65,	330.23					
1974, 05,	27164,	1974.3699,	333.10,	330.14,	333.19,	330.23,
333.10,	330.14					
1974, 06,	27195,	1974.4548,	332.26,	330.02,	332.50,	330.27,
332.26,	330.02					
1974, 07,	27225,	1974.5370,	331.18,	330.48,	331.00,	330.32,
331.18,	330.48					
1974, 08,	27256,	1974.6219,	329.40,	330.75,	328.99,	330.37,
329.40,	330.75					
1974, 09,	27287,	1974.7068,	327.44,	330.49,	327.36,	330.42,
327.44,	330.49					
1974, 10,	27317,	1974.7890,	327.38,	330.53,	327.34,	330.48,
327.38,	330.53					
1974, 11,	27348,	1974.8740,	328.46,	330.44,	328.58,	330.53,
328.46,	330.44					

1974, 12,	27378,	1974.9562,	329.58,	330.39,	329.80,	330.60,
329.58,	330.39					
1975, 01,	27409,	1975.0411,	330.41,	330.36,	330.73,	330.67,
330.41,	330.36					
1975, 02,	27440,	1975.1260,	331.41,	330.74,	331.43,	330.75,
331.41,	330.74					
1975, 03,	27468,	1975.2027,	332.05,	330.70,	332.19,	330.83,
332.05,	330.70					
1975, 04,	27499,	1975.2877,	333.32,	330.88,	333.37,	330.92,
333.32,	330.88					
1975, 05,	27529,	1975.3699,	333.98,	331.01,	333.99,	331.02,
333.98,	331.01					
1975, 06,	27560,	1975.4548,	333.61,	331.37,	333.35,	331.12,
333.61,	331.37					
1975, 07,	27590,	1975.5370,	331.91,	331.21,	331.89,	331.21,
331.91,	331.21					
1975, 08,	27621,	1975.6219,	330.06,	331.42,	329.92,	331.31,
330.06,	331.42					
1975, 09,	27652,	1975.7068,	328.56,	331.62,	328.33,	331.40,
328.56,	331.62					
1975, 10,	27682,	1975.7890,	328.35,	331.51,	328.34,	331.49,
328.35,	331.51					
1975, 11,	27713,	1975.8740,	329.50,	331.48,	329.61,	331.57,
329.50,	331.48					
1975, 12,	27743,	1975.9562,	330.77,	331.58,	330.86,	331.65,
330.77,	331.58					
1976, 01,	27774,	1976.0410,	331.76,	331.71,	331.79,	331.73,
331.76,	331.71					
1976, 02,	27805,	1976.1257,	332.58,	331.91,	332.49,	331.81,
332.58,	331.91					
1976, 03,	27834,	1976.2049,	333.50,	332.13,	333.28,	331.89,
333.50,	332.13					
1976, 04,	27865,	1976.2896,	334.59,	332.13,	334.45,	331.96,
334.59,	332.13					
1976, 05,	27895,	1976.3716,	334.89,	331.91,	335.02,	332.04,
334.89,	331.91					
1976, 06,	27926,	1976.4563,	334.34,	332.11,	334.34,	332.12,
334.34,	332.11					
1976, 07,	27956,	1976.5383,	333.06,	332.38,	332.86,	332.21,
333.06,	332.38					
1976, 08,	27987,	1976.6230,	330.95,	332.33,	330.89,	332.30,
330.95,	332.33					
1976, 09,	28018,	1976.7077,	329.31,	332.39,	329.32,	332.41,
329.31,	332.39					
1976, 10,	28048,	1976.7896,	328.95,	332.11,	329.37,	332.52,
328.95,	332.11					
1976, 11,	28079,	1976.8743,	330.32,	332.30,	330.69,	332.65,
330.32,	332.30					

1976, 12,	28109,	1976.9563,	331.69,	332.50,	331.99,	332.79,
331.69,	332.50					
1977, 01,	28140,	1977.0411,	332.94,	332.89,	333.01,	332.95,
332.94,	332.89					
1977, 02,	28171,	1977.1260,	333.43,	332.76,	333.80,	333.12,
333.43,	332.76					
1977, 03,	28199,	1977.2027,	334.71,	333.35,	334.66,	333.28,
334.71,	333.35					
1977, 04,	28230,	1977.2877,	336.08,	333.63,	335.94,	333.47,
336.08,	333.63					
1977, 05,	28260,	1977.3699,	336.76,	333.77,	336.64,	333.65,
336.76,	333.77					
1977, 06,	28291,	1977.4548,	336.28,	334.01,	336.07,	333.83,
336.28,	334.01					
1977, 07,	28321,	1977.5370,	334.93,	334.22,	334.68,	334.00,
334.93,	334.22					
1977, 08,	28352,	1977.6219,	332.76,	334.13,	332.77,	334.17,
332.76,	334.13					
1977, 09,	28383,	1977.7068,	331.60,	334.68,	331.23,	334.33,
331.60,	334.68					
1977, 10,	28413,	1977.7890,	331.17,	334.35,	331.30,	334.47,
331.17,	334.35					
1977, 11,	28444,	1977.8740,	332.41,	334.41,	332.64,	334.62,
332.41,	334.41					
1977, 12,	28474,	1977.9562,	333.86,	334.67,	333.95,	334.75,
333.86,	334.67					
1978, 01,	28505,	1978.0411,	334.98,	334.93,	334.95,	334.89,
334.98,	334.93					
1978, 02,	28536,	1978.1260,	335.40,	334.72,	335.71,	335.02,
335.40,	334.72					
1978, 03,	28564,	1978.2027,	336.65,	335.29,	336.52,	335.14,
336.65,	335.29					
1978, 04,	28595,	1978.2877,	337.77,	335.31,	337.74,	335.27,
337.77,	335.31					
1978, 05,	28625,	1978.3699,	338.02,	335.03,	338.38,	335.39,
338.02,	335.03					
1978, 06,	28656,	1978.4548,	337.91,	335.64,	337.75,	335.50,
337.91,	335.64					
1978, 07,	28686,	1978.5370,	336.55,	335.84,	336.29,	335.61,
336.55,	335.84					
1978, 08,	28717,	1978.6219,	334.69,	336.06,	334.31,	335.71,
334.69,	336.06					
1978, 09,	28748,	1978.7068,	332.77,	335.86,	332.71,	335.81,
332.77,	335.86					
1978, 10,	28778,	1978.7890,	332.56,	335.74,	332.73,	335.91,
332.56,	335.74					
1978, 11,	28809,	1978.8740,	333.93,	335.93,	334.02,	336.00,
333.93,	335.93					

1978, 12,	28839,	1978.9562,	334.96,	335.78,	335.30,	336.10,
334.96,	335.78					
1979, 01,	28870,	1979.0411,	336.24,	336.19,	336.27,	336.21,
336.24,	336.19					
1979, 02,	28901,	1979.1260,	336.77,	336.09,	337.01,	336.32,
336.77,	336.09					
1979, 03,	28929,	1979.2027,	337.97,	336.60,	337.81,	336.43,
337.97,	336.60					
1979, 04,	28960,	1979.2877,	338.89,	336.43,	339.04,	336.55,
338.89,	336.43					
1979, 05,	28990,	1979.3699,	339.48,	336.48,	339.69,	336.68,
339.48,	336.48					
1979, 06,	29021,	1979.4548,	339.30,	337.02,	339.08,	336.82,
339.30,	337.02					
1979, 07,	29051,	1979.5370,	337.74,	337.03,	337.64,	336.95,
337.74,	337.03					
1979, 08,	29082,	1979.6219,	336.10,	337.47,	335.69,	337.09,
336.10,	337.47					
1979, 09,	29113,	1979.7068,	333.93,	337.02,	334.13,	337.24,
333.93,	337.02					
1979, 10,	29143,	1979.7890,	333.87,	337.07,	334.20,	337.38,
333.87,	337.07					
1979, 11,	29174,	1979.8740,	335.30,	337.31,	335.56,	337.54,
335.30,	337.31					
1979, 12,	29204,	1979.9562,	336.74,	337.56,	336.90,	337.70,
336.74,	337.56					
1980, 01,	29235,	1980.0410,	338.03,	337.98,	337.93,	337.87,
338.03,	337.98					
1980, 02,	29266,	1980.1257,	338.37,	337.69,	338.72,	338.03,
338.37,	337.69					
1980, 03,	29295,	1980.2049,	340.09,	338.69,	339.60,	338.19,
340.09,	338.69					
1980, 04,	29326,	1980.2896,	340.78,	338.28,	340.87,	338.35,
340.78,	338.28					
1980, 05,	29356,	1980.3716,	341.48,	338.47,	341.52,	338.50,
341.48,	338.47					
1980, 06,	29387,	1980.4563,	341.18,	338.92,	340.89,	338.65,
341.18,	338.92					
1980, 07,	29417,	1980.5383,	339.57,	338.88,	339.44,	338.79,
339.57,	338.88					
1980, 08,	29448,	1980.6230,	337.61,	339.01,	337.48,	338.92,
337.61,	339.01					
1980, 09,	29479,	1980.7077,	335.90,	339.01,	335.91,	339.04,
335.90,	339.01					
1980, 10,	29509,	1980.7896,	336.03,	339.23,	335.96,	339.15,
336.03,	339.23					
1980, 11,	29540,	1980.8743,	337.12,	339.13,	337.27,	339.26,
337.12,	339.13					

1980, 12,	29570,	1980.9563,	338.23,	339.05,	338.56,	339.36,
338.23,	339.05					
1981, 01,	29601,	1981.0411,	339.25,	339.20,	339.53,	339.47,
339.25,	339.20					
1981, 02,	29632,	1981.1260,	340.50,	339.81,	340.26,	339.57,
340.50,	339.81					
1981, 03,	29660,	1981.2027,	341.40,	340.02,	341.05,	339.66,
341.40,	340.02					
1981, 04,	29691,	1981.2877,	342.52,	340.04,	342.25,	339.75,
342.52,	340.04					
1981, 05,	29721,	1981.3699,	342.93,	339.90,	342.86,	339.83,
342.93,	339.90					
1981, 06,	29752,	1981.4548,	342.27,	339.98,	342.19,	339.92,
342.27,	339.98					
1981, 07,	29782,	1981.5370,	340.50,	339.79,	340.69,	340.00,
340.50,	339.79					
1981, 08,	29813,	1981.6219,	338.45,	339.83,	338.68,	340.09,
338.45,	339.83					
1981, 09,	29844,	1981.7068,	336.71,	339.83,	337.06,	340.19,
336.71,	339.83					
1981, 10,	29874,	1981.7890,	336.88,	340.10,	337.08,	340.29,
336.88,	340.10					
1981, 11,	29905,	1981.8740,	338.38,	340.40,	338.40,	340.40,
338.38,	340.40					
1981, 12,	29935,	1981.9562,	339.63,	340.46,	339.70,	340.51,
339.63,	340.46					
1982, 01,	29966,	1982.0411,	340.77,	340.72,	340.68,	340.62,
340.77,	340.72					
1982, 02,	29997,	1982.1260,	341.63,	340.95,	341.42,	340.72,
341.63,	340.95					
1982, 03,	30025,	1982.2027,	342.72,	341.34,	342.21,	340.81,
342.72,	341.34					
1982, 04,	30056,	1982.2877,	343.59,	341.10,	343.41,	340.90,
343.59,	341.10					
1982, 05,	30086,	1982.3699,	344.16,	341.12,	344.02,	340.98,
344.16,	341.12					
1982, 06,	30117,	1982.4548,	343.37,	341.07,	343.34,	341.06,
343.37,	341.07					
1982, 07,	30147,	1982.5370,	342.07,	341.35,	341.83,	341.14,
342.07,	341.35					
1982, 08,	30178,	1982.6219,	339.83,	341.21,	339.80,	341.22,
339.83,	341.21					
1982, 09,	30209,	1982.7068,	338.00,	341.12,	338.16,	341.31,
338.00,	341.12					
1982, 10,	30239,	1982.7890,	337.88,	341.11,	338.18,	341.40,
337.88,	341.11					
1982, 11,	30270,	1982.8740,	339.28,	341.31,	339.51,	341.52,
339.28,	341.31					

1982, 12,	30300,	1982.9562,	340.51,	341.34,	340.83,	341.65,
340.51,	341.34					
1983, 01,	30331,	1983.0411,	341.40,	341.35,	341.86,	341.80,
341.40,	341.35					
1983, 02,	30362,	1983.1260,	342.54,	341.86,	342.67,	341.97,
342.54,	341.86					
1983, 03,	30390,	1983.2027,	343.12,	341.73,	343.54,	342.14,
343.12,	341.73					
1983, 04,	30421,	1983.2877,	344.96,	342.46,	344.85,	342.33,
344.96,	342.46					
1983, 05,	30451,	1983.3699,	345.78,	342.73,	345.57,	342.52,
345.78,	342.73					
1983, 06,	30482,	1983.4548,	345.34,	343.03,	345.00,	342.71,
345.34,	343.03					
1983, 07,	30512,	1983.5370,	344.00,	343.27,	343.58,	342.89,
344.00,	343.27					
1983, 08,	30543,	1983.6219,	342.40,	343.79,	341.64,	343.07,
342.40,	343.79					
1983, 09,	30574,	1983.7068,	339.89,	343.02,	340.08,	343.23,
339.89,	343.02					
1983, 10,	30604,	1983.7890,	340.00,	343.25,	340.15,	343.38,
340.00,	343.25					
1983, 11,	30635,	1983.8740,	341.16,	343.19,	341.52,	343.53,
341.16,	343.19					
1983, 12,	30665,	1983.9562,	342.99,	343.82,	342.86,	343.68,
342.99,	343.82					
1984, 01,	30696,	1984.0410,	343.82,	343.77,	343.88,	343.82,
343.82,	343.77					
1984, 02,	30727,	1984.1257,	344.62,	343.93,	344.66,	343.96,
344.62,	343.93					
1984, 03,	30756,	1984.2049,	345.39,	343.97,	345.52,	344.09,
345.39,	343.97					
1984, 04,	30787,	1984.2896,	347.15,	344.62,	346.76,	344.22,
347.15,	344.62					
1984, 05,	30817,	1984.3716,	347.52,	344.47,	347.39,	344.34,
347.52,	344.47					
1984, 06,	30848,	1984.4563,	346.88,	344.59,	346.73,	344.46,
346.88,	344.59					
1984, 07,	30878,	1984.5383,	345.47,	344.77,	345.24,	344.57,
345.47,	344.77					
1984, 08,	30909,	1984.6230,	343.34,	344.76,	343.23,	344.69,
343.34,	344.76					
1984, 09,	30940,	1984.7077,	341.13,	344.29,	341.63,	344.80,
341.13,	344.29					
1984, 10,	30970,	1984.7896,	341.40,	344.64,	341.68,	344.92,
341.40,	344.64					
1984, 11,	31001,	1984.8743,	343.02,	345.05,	343.03,	345.04,
343.02,	345.05					

1984, 12,	31031,	1984.9563,	344.25,	345.08,	344.34,	345.16,
344.25,	345.08					
1985, 01,	31062,	1985.0411,	344.99,	344.94,	345.35,	345.28,
344.99,	344.94					
1985, 02,	31093,	1985.1260,	346.01,	345.32,	346.11,	345.41,
346.01,	345.32					
1985, 03,	31121,	1985.2027,	347.43,	346.04,	346.93,	345.52,
347.43,	346.04					
1985, 04,	31152,	1985.2877,	348.34,	345.83,	348.16,	345.63,
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1985, 05,	31182,	1985.3699,	348.92,	345.86,	348.80,	345.73,
348.92,	345.86					
1985, 06,	31213,	1985.4548,	348.24,	345.92,	348.13,	345.83,
348.24,	345.92					
1985, 07,	31243,	1985.5370,	346.54,	345.81,	346.61,	345.92,
346.54,	345.81					
1985, 08,	31274,	1985.6219,	344.64,	346.04,	344.57,	346.00,
344.64,	346.04					
1985, 09,	31305,	1985.7068,	343.06,	346.21,	342.92,	346.09,
343.06,	346.21					
1985, 10,	31335,	1985.7890,	342.78,	346.04,	342.92,	346.17,
342.78,	346.04					
1985, 11,	31366,	1985.8740,	344.21,	346.26,	344.24,	346.26,
344.21,	346.26					
1985, 12,	31396,	1985.9562,	345.53,	346.37,	345.53,	346.35,
345.53,	346.37					
1986, 01,	31427,	1986.0411,	346.28,	346.23,	346.52,	346.45,
346.28,	346.23					
1986, 02,	31458,	1986.1260,	346.93,	346.24,	347.27,	346.56,
346.93,	346.24					
1986, 03,	31486,	1986.2027,	347.83,	346.43,	348.08,	346.67,
347.83,	346.43					
1986, 04,	31517,	1986.2877,	349.53,	347.01,	349.33,	346.80,
349.53,	347.01					
1986, 05,	31547,	1986.3699,	350.19,	347.12,	349.99,	346.92,
350.19,	347.12					
1986, 06,	31578,	1986.4548,	349.53,	347.20,	349.36,	347.05,
349.53,	347.20					
1986, 07,	31608,	1986.5370,	347.92,	347.19,	347.87,	347.18,
347.92,	347.19					
1986, 08,	31639,	1986.6219,	345.88,	347.28,	345.87,	347.30,
345.88,	347.28					
1986, 09,	31670,	1986.7068,	344.83,	348.00,	344.25,	347.43,
344.83,	348.00					
1986, 10,	31700,	1986.7890,	344.15,	347.43,	344.30,	347.56,
344.15,	347.43					
1986, 11,	31731,	1986.8740,	345.64,	347.69,	345.66,	347.69,
345.64,	347.69					

1986, 12,	31761,	1986.9562,	346.88,	347.72,	347.00,	347.82,
346.88,	347.72					
1987, 01,	31792,	1987.0411,	348.00,	347.95,	348.03,	347.97,
348.00,	347.95					
1987, 02,	31823,	1987.1260,	348.47,	347.77,	348.82,	348.12,
348.47,	347.77					
1987, 03,	31851,	1987.2027,	349.40,	348.00,	349.69,	348.27,
349.40,	348.00					
1987, 04,	31882,	1987.2877,	350.97,	348.44,	350.99,	348.44,
350.97,	348.44					
1987, 05,	31912,	1987.3699,	351.84,	348.75,	351.70,	348.61,
351.84,	348.75					
1987, 06,	31943,	1987.4548,	351.25,	348.91,	351.12,	348.80,
351.25,	348.91					
1987, 07,	31973,	1987.5370,	349.50,	348.76,	349.69,	348.99,
349.50,	348.76					
1987, 08,	32004,	1987.6219,	348.09,	349.49,	347.74,	349.18,
348.09,	349.49					
1987, 09,	32035,	1987.7068,	346.44,	349.61,	346.19,	349.38,
346.44,	349.61					
1987, 10,	32065,	1987.7890,	346.09,	349.38,	346.30,	349.57,
346.09,	349.38					
1987, 11,	32096,	1987.8740,	347.54,	349.60,	347.73,	349.77,
347.54,	349.60					
1987, 12,	32126,	1987.9562,	348.69,	349.54,	349.15,	349.97,
348.69,	349.54					
1988, 01,	32157,	1988.0410,	350.16,	350.11,	350.24,	350.18,
350.16,	350.11					
1988, 02,	32188,	1988.1257,	351.47,	350.77,	351.09,	350.39,
351.47,	350.77					
1988, 03,	32217,	1988.2049,	351.96,	350.52,	352.03,	350.58,
351.96,	350.52					
1988, 04,	32248,	1988.2896,	353.33,	350.77,	353.36,	350.78,
353.33,	350.77					
1988, 05,	32278,	1988.3716,	353.97,	350.88,	354.06,	350.97,
353.97,	350.88					
1988, 06,	32309,	1988.4563,	353.55,	351.23,	353.46,	351.16,
353.55,	351.23					
1988, 07,	32339,	1988.5383,	352.14,	351.43,	352.01,	351.33,
352.14,	351.43					
1988, 08,	32370,	1988.6230,	350.19,	351.63,	350.03,	351.50,
350.19,	351.63					
1988, 09,	32401,	1988.7077,	348.50,	351.69,	348.44,	351.66,
348.50,	351.69					
1988, 10,	32431,	1988.7896,	348.66,	351.95,	348.52,	351.80,
348.66,	351.95					
1988, 11,	32462,	1988.8743,	349.85,	351.91,	349.90,	351.93,
349.85,	351.91					

1988, 12,	32492,	1988.9563,	351.12,	351.96,	351.23,	352.06,
351.12,	351.96					
1989, 01,	32523,	1989.0411,	352.55,	352.50,	352.24,	352.17,
352.55,	352.50					
1989, 02,	32554,	1989.1260,	352.86,	352.16,	353.00,	352.29,
352.86,	352.16					
1989, 03,	32582,	1989.2027,	353.48,	352.07,	353.81,	352.39,
353.48,	352.07					
1989, 04,	32613,	1989.2877,	355.22,	352.67,	355.05,	352.49,
355.22,	352.67					
1989, 05,	32643,	1989.3699,	355.47,	352.37,	355.69,	352.59,
355.47,	352.37					
1989, 06,	32674,	1989.4548,	354.92,	352.57,	355.02,	352.69,
354.92,	352.57					
1989, 07,	32704,	1989.5370,	353.70,	352.96,	353.50,	352.79,
353.70,	352.96					
1989, 08,	32735,	1989.6219,	351.47,	352.88,	351.44,	352.89,
351.47,	352.88					
1989, 09,	32766,	1989.7068,	349.61,	352.80,	349.77,	352.99,
349.61,	352.80					
1989, 10,	32796,	1989.7890,	349.79,	353.09,	349.79,	353.08,
349.79,	353.09					
1989, 11,	32827,	1989.8740,	351.10,	353.17,	351.13,	353.18,
351.10,	353.17					
1989, 12,	32857,	1989.9562,	352.32,	353.17,	352.45,	353.28,
352.32,	353.17					
1990, 01,	32888,	1990.0411,	353.46,	353.41,	353.45,	353.39,
353.46,	353.41					
1990, 02,	32919,	1990.1260,	354.50,	353.80,	354.20,	353.49,
354.50,	353.80					
1990, 03,	32947,	1990.2027,	355.19,	353.77,	355.01,	353.58,
355.19,	353.77					
1990, 04,	32978,	1990.2877,	356.00,	353.45,	356.26,	353.69,
356.00,	353.45					
1990, 05,	33008,	1990.3699,	356.96,	353.85,	356.90,	353.79,
356.96,	353.85					
1990, 06,	33039,	1990.4548,	356.04,	353.68,	356.24,	353.91,
356.04,	353.68					
1990, 07,	33069,	1990.5370,	354.62,	353.88,	354.73,	354.03,
354.62,	353.88					
1990, 08,	33100,	1990.6219,	352.71,	354.13,	352.70,	354.16,
352.71,	354.13					
1990, 09,	33131,	1990.7068,	350.77,	353.98,	351.08,	354.30,
350.77,	353.98					
1990, 10,	33161,	1990.7890,	350.99,	354.30,	351.14,	354.44,
350.99,	354.30					
1990, 11,	33192,	1990.8740,	352.64,	354.72,	352.53,	354.59,
352.64,	354.72					

1990, 12,	33222,	1990.9562,	354.02,	354.87,	353.90,	354.74,
354.02,	354.87					
1991, 01,	33253,	1991.0411,	354.53,	354.47,	354.95,	354.88,
354.53,	354.47					
1991, 02,	33284,	1991.1260,	355.55,	354.85,	355.74,	355.02,
355.55,	354.85					
1991, 03,	33312,	1991.2027,	356.96,	355.54,	356.58,	355.14,
356.96,	355.54					
1991, 04,	33343,	1991.2877,	358.40,	355.84,	357.84,	355.26,
358.40,	355.84					
1991, 05,	33373,	1991.3699,	359.14,	356.01,	358.47,	355.35,
359.14,	356.01					
1991, 06,	33404,	1991.4548,	358.04,	355.68,	357.77,	355.43,
358.04,	355.68					
1991, 07,	33434,	1991.5370,	355.98,	355.23,	356.20,	355.49,
355.98,	355.23					
1991, 08,	33465,	1991.6219,	353.81,	355.24,	354.09,	355.55,
353.81,	355.24					
1991, 09,	33496,	1991.7068,	351.95,	355.17,	352.38,	355.61,
351.95,	355.17					
1991, 10,	33526,	1991.7890,	352.02,	355.34,	352.36,	355.67,
352.02,	355.34					
1991, 11,	33557,	1991.8740,	353.55,	355.63,	353.67,	355.73,
353.55,	355.63					
1991, 12,	33587,	1991.9562,	354.79,	355.64,	354.96,	355.80,
354.79,	355.64					
1992, 01,	33618,	1992.0410,	355.79,	355.73,	355.93,	355.87,
355.79,	355.73					
1992, 02,	33649,	1992.1257,	356.52,	355.82,	356.65,	355.94,
356.52,	355.82					
1992, 03,	33678,	1992.2049,	357.61,	356.16,	357.47,	356.00,
357.61,	356.16					
1992, 04,	33709,	1992.2896,	358.95,	356.36,	358.68,	356.07,
358.95,	356.36					
1992, 05,	33739,	1992.3716,	359.46,	356.33,	359.25,	356.12,
359.46,	356.33					
1992, 06,	33770,	1992.4563,	359.05,	356.70,	358.49,	356.16,
359.05,	356.70					
1992, 07,	33800,	1992.5383,	356.82,	356.11,	356.88,	356.20,
356.82,	356.11					
1992, 08,	33831,	1992.6230,	354.80,	356.26,	354.74,	356.23,
354.80,	356.26					
1992, 09,	33862,	1992.7077,	352.81,	356.04,	353.01,	356.26,
352.81,	356.04					
1992, 10,	33892,	1992.7896,	353.11,	356.44,	352.98,	356.29,
353.11,	356.44					
1992, 11,	33923,	1992.8743,	353.96,	356.05,	354.27,	356.33,
353.96,	356.05					

1992, 12,	33953,	1992.9563,	355.20,	356.05,	355.54,	356.37,
355.20,	356.05					
1993, 01,	33984,	1993.0411,	356.50,	356.45,	356.49,	356.43,
356.50,	356.45					
1993, 02,	34015,	1993.1260,	356.97,	356.26,	357.21,	356.49,
356.97,	356.26					
1993, 03,	34043,	1993.2027,	358.18,	356.75,	358.00,	356.55,
358.18,	356.75					
1993, 04,	34074,	1993.2877,	359.26,	356.68,	359.22,	356.63,
359.26,	356.68					
1993, 05,	34104,	1993.3699,	360.08,	356.94,	359.85,	356.71,
360.08,	356.94					
1993, 06,	34135,	1993.4548,	359.40,	357.02,	359.16,	356.80,
359.40,	357.02					
1993, 07,	34165,	1993.5370,	357.38,	356.63,	357.62,	356.90,
357.38,	356.63					
1993, 08,	34196,	1993.6219,	355.33,	356.76,	355.55,	357.01,
355.33,	356.76					
1993, 09,	34227,	1993.7068,	353.50,	356.74,	353.89,	357.14,
353.50,	356.74					
1993, 10,	34257,	1993.7890,	353.80,	357.14,	353.95,	357.28,
353.80,	357.14					
1993, 11,	34288,	1993.8740,	355.15,	357.24,	355.36,	357.44,
355.15,	357.24					
1993, 12,	34318,	1993.9562,	356.62,	357.47,	356.75,	357.59,
356.62,	357.47					
1994, 01,	34349,	1994.0411,	358.19,	358.14,	357.83,	357.76,
358.19,	358.14					
1994, 02,	34380,	1994.1260,	358.73,	358.02,	358.66,	357.93,
358.73,	358.02					
1994, 03,	34408,	1994.2027,	359.79,	358.35,	359.54,	358.09,
359.79,	358.35					
1994, 04,	34439,	1994.2877,	361.09,	358.50,	360.86,	358.26,
361.09,	358.50					
1994, 05,	34469,	1994.3699,	361.51,	358.36,	361.57,	358.42,
361.51,	358.36					
1994, 06,	34500,	1994.4548,	360.77,	358.39,	360.96,	358.59,
360.77,	358.39					
1994, 07,	34530,	1994.5370,	359.38,	358.63,	359.47,	358.75,
359.38,	358.63					
1994, 08,	34561,	1994.6219,	357.31,	358.74,	357.46,	358.93,
357.31,	358.74					
1994, 09,	34592,	1994.7068,	355.68,	358.92,	355.85,	359.11,
355.68,	358.92					
1994, 10,	34622,	1994.7890,	355.83,	359.19,	355.94,	359.29,
355.83,	359.19					
1994, 11,	34653,	1994.8740,	357.42,	359.53,	357.39,	359.47,
357.42,	359.53					

1994, 12,	34683,	1994.9562,	358.88,	359.74,	358.81,	359.65,
358.88,	359.74					
1995, 01,	34714,	1995.0411,	359.81,	359.76,	359.90,	359.84,
359.81,	359.76					
1995, 02,	34745,	1995.1260,	360.84,	360.13,	360.74,	360.02,
360.84,	360.13					
1995, 03,	34773,	1995.2027,	361.48,	360.04,	361.64,	360.18,
361.48,	360.04					
1995, 04,	34804,	1995.2877,	363.30,	360.71,	362.97,	360.36,
363.30,	360.71					
1995, 05,	34834,	1995.3699,	363.64,	360.48,	363.68,	360.52,
363.64,	360.48					
1995, 06,	34865,	1995.4548,	363.11,	360.72,	363.06,	360.69,
363.11,	360.72					
1995, 07,	34895,	1995.5370,	361.75,	360.99,	361.57,	360.85,
361.75,	360.99					
1995, 08,	34926,	1995.6219,	359.31,	360.75,	359.53,	361.01,
359.31,	360.75					
1995, 09,	34957,	1995.7068,	357.91,	361.17,	357.90,	361.17,
357.91,	361.17					
1995, 10,	34987,	1995.7890,	357.62,	360.98,	357.98,	361.33,
357.62,	360.98					
1995, 11,	35018,	1995.8740,	359.42,	361.54,	359.40,	361.49,
359.42,	361.54					
1995, 12,	35048,	1995.9562,	360.56,	361.42,	360.80,	361.65,
360.56,	361.42					
1996, 01,	35079,	1996.0410,	361.91,	361.86,	361.87,	361.80,
361.91,	361.86					
1996, 02,	35110,	1996.1257,	363.11,	362.39,	362.67,	361.95,
363.11,	362.39					
1996, 03,	35139,	1996.2049,	363.88,	362.42,	363.56,	362.08,
363.88,	362.42					
1996, 04,	35170,	1996.2896,	364.58,	361.96,	364.85,	362.21,
364.58,	361.96					
1996, 05,	35200,	1996.3716,	365.29,	362.11,	365.49,	362.32,
365.29,	362.11					
1996, 06,	35231,	1996.4563,	364.84,	362.46,	364.79,	362.43,
364.84,	362.46					
1996, 07,	35261,	1996.5383,	363.52,	362.80,	363.22,	362.53,
363.52,	362.80					
1996, 08,	35292,	1996.6230,	361.35,	362.82,	361.11,	362.62,
361.35,	362.82					
1996, 09,	35323,	1996.7077,	359.32,	362.59,	359.42,	362.71,
359.32,	362.59					
1996, 10,	35353,	1996.7896,	359.48,	362.85,	359.43,	362.79,
359.48,	362.85					
1996, 11,	35384,	1996.8743,	360.64,	362.75,	360.78,	362.87,
360.64,	362.75					

1996, 12,	35414,	1996.9563,	362.21,	363.07,	362.10,	362.95,
362.21,	363.07					
1997, 01,	35445,	1997.0411,	363.06,	363.01,	363.10,	363.03,
363.06,	363.01					
1997, 02,	35476,	1997.1260,	363.87,	363.15,	363.85,	363.12,
363.87,	363.15					
1997, 03,	35504,	1997.2027,	364.44,	363.00,	364.67,	363.21,
364.44,	363.00					
1997, 04,	35535,	1997.2877,	366.23,	363.62,	365.94,	363.31,
366.23,	363.62					
1997, 05,	35565,	1997.3699,	366.68,	363.50,	366.61,	363.43,
366.68,	363.50					
1997, 06,	35596,	1997.4548,	365.52,	363.11,	365.95,	363.57,
365.52,	363.11					
1997, 07,	35626,	1997.5370,	364.36,	363.60,	364.44,	363.72,
364.36,	363.60					
1997, 08,	35657,	1997.6219,	362.39,	363.84,	362.41,	363.89,
362.39,	363.84					
1997, 09,	35688,	1997.7068,	360.08,	363.35,	360.80,	364.09,
360.08,	363.35					
1997, 10,	35718,	1997.7890,	360.67,	364.05,	360.94,	364.31,
360.67,	364.05					
1997, 11,	35749,	1997.8740,	362.32,	364.45,	362.45,	364.55,
362.32,	364.45					
1997, 12,	35779,	1997.9562,	364.17,	365.03,	363.96,	364.81,
364.17,	365.03					
1998, 01,	35810,	1998.0411,	365.22,	365.17,	365.14,	365.08,
365.22,	365.17					
1998, 02,	35841,	1998.1260,	366.04,	365.32,	366.08,	365.35,
366.04,	365.32					
1998, 03,	35869,	1998.2027,	367.20,	365.75,	367.07,	365.60,
367.20,	365.75					
1998, 04,	35900,	1998.2877,	368.50,	365.88,	368.51,	365.88,
368.50,	365.88					
1998, 05,	35930,	1998.3699,	369.19,	366.00,	369.33,	366.14,
369.19,	366.00					
1998, 06,	35961,	1998.4548,	368.77,	366.35,	368.80,	366.40,
368.77,	366.35					
1998, 07,	35991,	1998.5370,	367.53,	366.77,	367.37,	366.65,
367.53,	366.77					
1998, 08,	36022,	1998.6219,	365.67,	367.13,	365.39,	366.88,
365.67,	367.13					
1998, 09,	36053,	1998.7068,	363.80,	367.09,	363.80,	367.10,
363.80,	367.09					
1998, 10,	36083,	1998.7890,	364.13,	367.53,	363.91,	367.29,
364.13,	367.53					
1998, 11,	36114,	1998.8740,	365.36,	367.49,	365.36,	367.47,
365.36,	367.49					

1998, 12,	36144,	1998.9562,	366.87,	367.74,	366.77,	367.62,
366.87,	367.74					
1999, 01,	36175,	1999.0411,	368.05,	368.00,	367.82,	367.75,
368.05,	368.00					
1999, 02,	36206,	1999.1260,	368.77,	368.05,	368.60,	367.87,
368.77,	368.05					
1999, 03,	36234,	1999.2027,	369.49,	368.03,	369.43,	367.95,
369.49,	368.03					
1999, 04,	36265,	1999.2877,	371.04,	368.41,	370.68,	368.04,
371.04,	368.41					
1999, 05,	36295,	1999.3699,	370.90,	367.70,	371.31,	368.11,
370.90,	367.70					
1999, 06,	36326,	1999.4548,	370.25,	367.83,	370.58,	368.18,
370.25,	367.83					
1999, 07,	36356,	1999.5370,	369.17,	368.41,	368.97,	368.24,
369.17,	368.41					
1999, 08,	36387,	1999.6219,	366.83,	368.29,	366.82,	368.32,
366.83,	368.29					
1999, 09,	36418,	1999.7068,	364.54,	367.84,	365.08,	368.39,
364.54,	367.84					
1999, 10,	36448,	1999.7890,	365.04,	368.44,	365.08,	368.47,
365.04,	368.44					
1999, 11,	36479,	1999.8740,	366.58,	368.72,	366.44,	368.56,
366.58,	368.72					
1999, 12,	36509,	1999.9562,	367.92,	368.79,	367.79,	368.64,
367.92,	368.79					
2000, 01,	36540,	2000.0410,	369.05,	369.00,	368.80,	368.73,
369.05,	369.00					
2000, 02,	36571,	2000.1257,	369.37,	368.65,	369.56,	368.83,
369.37,	368.65					
2000, 03,	36600,	2000.2049,	370.42,	368.94,	370.43,	368.92,
370.42,	368.94					
2000, 04,	36631,	2000.2896,	371.57,	368.91,	371.71,	369.03,
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2000, 05,	36661,	2000.3716,	371.74,	368.53,	372.36,	369.15,
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2000, 06,	36692,	2000.4563,	371.60,	369.19,	371.67,	369.28,
371.60,	369.19					
2000, 07,	36722,	2000.5383,	370.02,	369.29,	370.12,	369.42,
370.02,	369.29					
2000, 08,	36753,	2000.6230,	368.03,	369.52,	368.03,	369.56,
368.03,	369.52					
2000, 09,	36784,	2000.7077,	366.53,	369.85,	366.38,	369.71,
366.53,	369.85					
2000, 10,	36814,	2000.7896,	366.64,	370.05,	366.45,	369.85,
366.64,	370.05					
2000, 11,	36845,	2000.8743,	368.20,	370.34,	367.88,	369.99,
368.20,	370.34					

2000, 12,	36875,	2000.9563,	369.44,	370.31,	369.26,	370.12,
369.44,	370.31					
2001, 01,	36906,	2001.0411,	370.20,	370.14,	370.31,	370.25,
370.20,	370.14					
2001, 02,	36937,	2001.1260,	371.41,	370.69,	371.11,	370.37,
371.41,	370.69					
2001, 03,	36965,	2001.2027,	372.04,	370.57,	371.96,	370.48,
372.04,	370.57					
2001, 04,	36996,	2001.2877,	372.78,	370.14,	373.26,	370.60,
372.78,	370.14					
2001, 05,	37026,	2001.3699,	373.94,	370.72,	373.94,	370.72,
373.94,	370.72					
2001, 06,	37057,	2001.4548,	373.23,	370.79,	373.27,	370.85,
373.23,	370.79					
2001, 07,	37087,	2001.5370,	371.54,	370.77,	371.71,	370.98,
371.54,	370.77					
2001, 08,	37118,	2001.6219,	369.47,	370.94,	369.62,	371.13,
369.47,	370.94					
2001, 09,	37149,	2001.7068,	367.88,	371.19,	367.95,	371.28,
367.88,	371.19					
2001, 10,	37179,	2001.7890,	368.01,	371.44,	368.02,	371.43,
368.01,	371.44					
2001, 11,	37210,	2001.8740,	369.60,	371.75,	369.47,	371.60,
369.60,	371.75					
2001, 12,	37240,	2001.9562,	371.16,	372.04,	370.90,	371.76,
371.16,	372.04					
2002, 01,	37271,	2002.0411,	372.36,	372.30,	372.00,	371.93,
372.36,	372.30					
2002, 02,	37302,	2002.1260,	373.00,	372.27,	372.84,	372.10,
373.00,	372.27					
2002, 03,	37330,	2002.2027,	373.44,	371.97,	373.75,	372.26,
373.44,	371.97					
2002, 04,	37361,	2002.2877,	374.77,	372.12,	375.12,	372.45,
374.77,	372.12					
2002, 05,	37391,	2002.3699,	375.48,	372.25,	375.88,	372.65,
375.48,	372.25					
2002, 06,	37422,	2002.4548,	375.33,	372.89,	375.28,	372.86,
375.33,	372.89					
2002, 07,	37452,	2002.5370,	373.95,	373.18,	373.81,	373.07,
373.95,	373.18					
2002, 08,	37483,	2002.6219,	371.41,	372.88,	371.79,	373.30,
371.41,	372.88					
2002, 09,	37514,	2002.7068,	370.63,	373.95,	370.19,	373.53,
370.63,	373.95					
2002, 10,	37544,	2002.7890,	370.18,	373.62,	370.34,	373.76,
370.18,	373.62					
2002, 11,	37575,	2002.8740,	372.01,	374.17,	371.86,	373.99,
372.01,	374.17					

2002, 12,	37605,	2002.9562,	373.71,	374.59,	373.35,	374.22,
373.71,	374.59					
2003, 01,	37636,	2003.0411,	374.61,	374.56,	374.51,	374.44,
374.61,	374.56					
2003, 02,	37667,	2003.1260,	375.55,	374.82,	375.40,	374.66,
375.55,	374.82					
2003, 03,	37695,	2003.2027,	376.04,	374.56,	376.35,	374.86,
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2003, 04,	37726,	2003.2877,	377.58,	374.92,	377.74,	375.07,
377.58,	374.92					
2003, 05,	37756,	2003.3699,	378.28,	375.04,	378.51,	375.27,
378.28,	375.04					
2003, 06,	37787,	2003.4548,	378.07,	375.61,	377.91,	375.48,
378.07,	375.61					
2003, 07,	37817,	2003.5370,	376.55,	375.77,	376.41,	375.67,
376.55,	375.77					
2003, 08,	37848,	2003.6219,	374.42,	375.90,	374.35,	375.86,
374.42,	375.90					
2003, 09,	37879,	2003.7068,	372.92,	376.25,	372.69,	376.04,
372.92,	376.25					
2003, 10,	37909,	2003.7890,	372.94,	376.39,	372.77,	376.21,
372.94,	376.39					
2003, 11,	37940,	2003.8740,	374.29,	376.45,	374.23,	376.37,
374.29,	376.45					
2003, 12,	37970,	2003.9562,	375.63,	376.51,	375.65,	376.51,
375.63,	376.51					
2004, 01,	38001,	2004.0410,	376.73,	376.67,	376.72,	376.65,
376.73,	376.67					
2004, 02,	38032,	2004.1257,	377.31,	376.57,	377.53,	376.79,
377.31,	376.57					
2004, 03,	38061,	2004.2049,	378.33,	376.83,	378.43,	376.91,
378.33,	376.83					
2004, 04,	38092,	2004.2896,	380.44,	377.75,	379.74,	377.03,
380.44,	377.75					
2004, 05,	38122,	2004.3716,	380.56,	377.31,	380.39,	377.14,
380.56,	377.31					
2004, 06,	38153,	2004.4563,	379.49,	377.05,	379.67,	377.26,
379.49,	377.05					
2004, 07,	38183,	2004.5383,	377.71,	376.96,	378.09,	377.38,
377.71,	376.96					
2004, 08,	38214,	2004.6230,	375.77,	377.29,	375.97,	377.52,
375.77,	377.29					
2004, 09,	38245,	2004.7077,	373.99,	377.35,	374.30,	377.67,
373.99,	377.35					
2004, 10,	38275,	2004.7896,	374.17,	377.62,	374.39,	377.83,
374.17,	377.62					
2004, 11,	38306,	2004.8743,	375.79,	377.96,	375.87,	378.01,
375.79,	377.96					

2004, 12,	38336,	2004.9563,	377.39,	378.28,	377.34,	378.20,
377.39,	378.28					
2005, 01,	38367,	2005.0411,	378.29,	378.23,	378.48,	378.41,
378.29,	378.23					
2005, 02,	38398,	2005.1260,	379.56,	378.82,	379.37,	378.62,
379.56,	378.82					
2005, 03,	38426,	2005.2027,	380.06,	378.57,	380.32,	378.82,
380.06,	378.57					
2005, 04,	38457,	2005.2877,	382.02,	379.34,	381.74,	379.04,
382.02,	379.34					
2005, 05,	38487,	2005.3699,	382.21,	378.95,	382.52,	379.26,
382.21,	378.95					
2005, 06,	38518,	2005.4548,	382.05,	379.58,	381.93,	379.48,
382.05,	379.58					
2005, 07,	38548,	2005.5370,	380.63,	379.86,	380.43,	379.69,
380.63,	379.86					
2005, 08,	38579,	2005.6219,	378.64,	380.12,	378.38,	379.91,
378.64,	380.12					
2005, 09,	38610,	2005.7068,	376.38,	379.74,	376.75,	380.12,
376.38,	379.74					
2005, 10,	38640,	2005.7890,	376.77,	380.24,	376.86,	380.32,
376.77,	380.24					
2005, 11,	38671,	2005.8740,	378.27,	380.45,	378.36,	380.52,
378.27,	380.45					
2005, 12,	38701,	2005.9562,	379.93,	380.81,	379.83,	380.70,
379.93,	380.81					
2006, 01,	38732,	2006.0411,	381.33,	381.28,	380.95,	380.88,
381.33,	381.28					
2006, 02,	38763,	2006.1260,	381.98,	381.24,	381.81,	381.06,
381.98,	381.24					
2006, 03,	38791,	2006.2027,	382.53,	381.04,	382.71,	381.21,
382.53,	381.04					
2006, 04,	38822,	2006.2877,	384.33,	381.65,	384.06,	381.36,
384.33,	381.65					
2006, 05,	38852,	2006.3699,	384.89,	381.62,	384.78,	381.51,
384.89,	381.62					
2006, 06,	38883,	2006.4548,	383.99,	381.52,	384.11,	381.65,
383.99,	381.52					
2006, 07,	38913,	2006.5370,	382.25,	381.47,	382.54,	381.80,
382.25,	381.47					
2006, 08,	38944,	2006.6219,	380.44,	381.93,	380.42,	381.94,
380.44,	381.93					
2006, 09,	38975,	2006.7068,	378.77,	382.13,	378.71,	382.09,
378.77,	382.13					
2006, 10,	39005,	2006.7890,	379.03,	382.51,	378.77,	382.24,
379.03,	382.51					
2006, 11,	39036,	2006.8740,	380.11,	382.29,	380.23,	382.39,
380.11,	382.29					

2006, 12,	39066,	2006.9562,	381.63,	382.52,	381.66,	382.54,
381.63,	382.52					
2007, 01,	39097,	2007.0411,	382.55,	382.50,	382.75,	382.69,
382.55,	382.50					
2007, 02,	39128,	2007.1260,	383.68,	382.94,	383.59,	382.84,
383.68,	382.94					
2007, 03,	39156,	2007.2027,	384.31,	382.82,	384.49,	382.99,
384.31,	382.82					
2007, 04,	39187,	2007.2877,	386.20,	383.51,	385.85,	383.15,
386.20,	383.51					
2007, 05,	39217,	2007.3699,	386.38,	383.10,	386.58,	383.30,
386.38,	383.10					
2007, 06,	39248,	2007.4548,	385.85,	383.36,	385.93,	383.46,
385.85,	383.36					
2007, 07,	39278,	2007.5370,	384.42,	383.64,	384.37,	383.62,
384.42,	383.64					
2007, 08,	39309,	2007.6219,	381.81,	383.31,	382.25,	383.79,
381.81,	383.31					
2007, 09,	39340,	2007.7068,	380.83,	384.21,	380.56,	383.95,
380.83,	384.21					
2007, 10,	39370,	2007.7890,	380.83,	384.32,	380.63,	384.11,
380.83,	384.32					
2007, 11,	39401,	2007.8740,	382.32,	384.51,	382.10,	384.26,
382.32,	384.51					
2007, 12,	39431,	2007.9562,	383.58,	384.48,	383.53,	384.41,
383.58,	384.48					
2008, 01,	39462,	2008.0410,	385.04,	384.99,	384.62,	384.56,
385.04,	384.99					
2008, 02,	39493,	2008.1257,	385.81,	385.07,	385.45,	384.70,
385.81,	385.07					
2008, 03,	39522,	2008.2049,	385.80,	384.28,	386.38,	384.84,
385.80,	384.28					
2008, 04,	39553,	2008.2896,	386.74,	384.01,	387.74,	384.99,
386.74,	384.01					
2008, 05,	39583,	2008.3716,	388.49,	385.20,	388.44,	385.15,
388.49,	385.20					
2008, 06,	39614,	2008.4563,	388.02,	385.56,	387.77,	385.32,
388.02,	385.56					
2008, 07,	39644,	2008.5383,	386.22,	385.47,	386.20,	385.49,
386.22,	385.47					
2008, 08,	39675,	2008.6230,	384.05,	385.58,	384.09,	385.66,
384.05,	385.58					
2008, 09,	39706,	2008.7077,	383.05,	386.45,	382.41,	385.82,
383.05,	386.45					
2008, 10,	39736,	2008.7896,	382.75,	386.24,	382.50,	385.98,
382.75,	386.24					
2008, 11,	39767,	2008.8743,	383.98,	386.17,	383.97,	386.14,
383.98,	386.17					

2008, 12,	39797,	2008.9563,	385.08,	385.98,	385.41,	386.29,
385.08,	385.98					
2009, 01,	39828,	2009.0411,	386.63,	386.57,	386.51,	386.45,
386.63,	386.57					
2009, 02,	39859,	2009.1260,	387.10,	386.36,	387.36,	386.60,
387.10,	386.36					
2009, 03,	39887,	2009.2027,	388.50,	387.00,	388.27,	386.75,
388.50,	387.00					
2009, 04,	39918,	2009.2877,	389.54,	386.84,	389.64,	386.92,
389.54,	386.84					
2009, 05,	39948,	2009.3699,	390.15,	386.85,	390.38,	387.09,
390.15,	386.85					
2009, 06,	39979,	2009.4548,	389.60,	387.10,	389.75,	387.27,
389.60,	387.10					
2009, 07,	40009,	2009.5370,	388.05,	387.26,	388.21,	387.46,
388.05,	387.26					
2009, 08,	40040,	2009.6219,	386.06,	387.57,	386.12,	387.66,
386.06,	387.57					
2009, 09,	40071,	2009.7068,	384.64,	388.03,	384.46,	387.88,
384.64,	388.03					
2009, 10,	40101,	2009.7890,	384.32,	387.83,	384.59,	388.09,
384.32,	387.83					
2009, 11,	40132,	2009.8740,	386.05,	388.25,	386.14,	388.31,
386.05,	388.25					
2009, 12,	40162,	2009.9562,	387.48,	388.38,	387.66,	388.54,
387.48,	388.38					
2010, 01,	40193,	2010.0411,	388.55,	388.50,	388.83,	388.77,
388.55,	388.50					
2010, 02,	40224,	2010.1260,	390.08,	389.33,	389.75,	388.99,
390.08,	389.33					
2010, 03,	40252,	2010.2027,	391.02,	389.52,	390.71,	389.19,
391.02,	389.52					
2010, 04,	40283,	2010.2877,	392.39,	389.67,	392.13,	389.40,
392.39,	389.67					
2010, 05,	40313,	2010.3699,	393.24,	389.93,	392.90,	389.60,
393.24,	389.93					
2010, 06,	40344,	2010.4548,	392.26,	389.75,	392.27,	389.78,
392.26,	389.75					
2010, 07,	40374,	2010.5370,	390.35,	389.56,	390.71,	389.96,
390.35,	389.56					
2010, 08,	40405,	2010.6219,	388.53,	390.04,	388.59,	390.13,
388.53,	390.04					
2010, 09,	40436,	2010.7068,	386.85,	390.25,	386.88,	390.30,
386.85,	390.25					
2010, 10,	40466,	2010.7890,	387.18,	390.70,	386.95,	390.46,
387.18,	390.70					
2010, 11,	40497,	2010.8740,	388.69,	390.90,	388.42,	390.61,
388.69,	390.90					

2010, 12,	40527,	2010.9562,	389.83,	390.74,	389.86,	390.75,
389.83,	390.74					
2011, 01,	40558,	2011.0411,	391.33,	391.27,	390.95,	390.88,
391.33,	391.27					
2011, 02,	40589,	2011.1260,	391.96,	391.21,	391.77,	391.01,
391.96,	391.21					
2011, 03,	40617,	2011.2027,	392.49,	390.98,	392.66,	391.13,
392.49,	390.98					
2011, 04,	40648,	2011.2877,	393.41,	390.68,	394.01,	391.27,
393.41,	390.68					
2011, 05,	40678,	2011.3699,	394.33,	391.01,	394.73,	391.42,
394.33,	391.01					
2011, 06,	40709,	2011.4548,	393.75,	391.23,	394.07,	391.58,
393.75,	391.23					
2011, 07,	40739,	2011.5370,	392.64,	391.85,	392.50,	391.74,
392.64,	391.85					
2011, 08,	40770,	2011.6219,	390.25,	391.76,	390.37,	391.92,
390.25,	391.76					
2011, 09,	40801,	2011.7068,	389.05,	392.46,	388.67,	392.10,
389.05,	392.46					
2011, 10,	40831,	2011.7890,	388.98,	392.51,	388.77,	392.28,
388.98,	392.51					
2011, 11,	40862,	2011.8740,	390.30,	392.51,	390.28,	392.47,
390.30,	392.51					
2011, 12,	40892,	2011.9562,	391.86,	392.76,	391.76,	392.65,
391.86,	392.76					
2012, 01,	40923,	2012.0410,	393.13,	393.08,	392.90,	392.84,
393.13,	393.08					
2012, 02,	40954,	2012.1257,	393.42,	392.67,	393.79,	393.03,
393.42,	392.67					
2012, 03,	40983,	2012.2049,	394.43,	392.89,	394.77,	393.21,
394.43,	392.89					
2012, 04,	41014,	2012.2896,	396.51,	393.75,	396.19,	393.42,
396.51,	393.75					
2012, 05,	41044,	2012.3716,	396.96,	393.63,	396.95,	393.62,
396.96,	393.63					
2012, 06,	41075,	2012.4563,	395.97,	393.47,	396.32,	393.84,
395.97,	393.47					
2012, 07,	41105,	2012.5383,	394.60,	393.84,	394.79,	394.06,
394.60,	393.84					
2012, 08,	41136,	2012.6230,	392.61,	394.15,	392.72,	394.30,
392.61,	394.15					
2012, 09,	41167,	2012.7077,	391.20,	394.64,	391.09,	394.54,
391.20,	394.64					
2012, 10,	41197,	2012.7896,	391.09,	394.62,	391.26,	394.78,
391.09,	394.62					
2012, 11,	41228,	2012.8743,	393.03,	395.24,	392.83,	395.02,
393.03,	395.24					

2012, 12,	41258,	2012.9563,	394.42,	395.32,	394.37,	395.25,
394.42,	395.32					
2013, 01,	41289,	2013.0411,	395.69,	395.64,	395.56,	395.49,
395.69,	395.64					
2013, 02,	41320,	2013.1260,	396.94,	396.19,	396.48,	395.72,
396.94,	396.19					
2013, 03,	41348,	2013.2027,	397.35,	395.83,	397.45,	395.91,
397.35,	395.83					
2013, 04,	41379,	2013.2877,	398.44,	395.71,	398.88,	396.13,
398.44,	395.71					
2013, 05,	41409,	2013.3699,	400.06,	396.72,	399.67,	396.33,
400.06,	396.72					
2013, 06,	41440,	2013.4548,	398.95,	396.43,	399.04,	396.53,
398.95,	396.43					
2013, 07,	41470,	2013.5370,	397.46,	396.66,	397.48,	396.72,
397.46,	396.66					
2013, 08,	41501,	2013.6219,	395.49,	397.01,	395.36,	396.92,
395.49,	397.01					
2013, 09,	41532,	2013.7068,	393.47,	396.91,	393.65,	397.11,
393.47,	396.91					
2013, 10,	41562,	2013.7890,	393.77,	397.32,	393.75,	397.29,
393.77,	397.32					
2013, 11,	41593,	2013.8740,	395.27,	397.50,	395.26,	397.47,
395.27,	397.50					
2013, 12,	41623,	2013.9562,	396.90,	397.81,	396.75,	397.64,
396.90,	397.81					
2014, 01,	41654,	2014.0411,	398.01,	397.95,	397.88,	397.81,
398.01,	397.95					
2014, 02,	41685,	2014.1260,	398.18,	397.42,	398.75,	397.98,
398.18,	397.42					
2014, 03,	41713,	2014.2027,	399.56,	398.04,	399.68,	398.14,
399.56,	398.04					
2014, 04,	41744,	2014.2877,	401.44,	398.69,	401.07,	398.30,
401.44,	398.69					
2014, 05,	41774,	2014.3699,	401.99,	398.64,	401.81,	398.46,
401.99,	398.64					
2014, 06,	41805,	2014.4548,	401.41,	398.88,	401.14,	398.62,
401.41,	398.88					
2014, 07,	41835,	2014.5370,	399.17,	398.37,	399.54,	398.78,
399.17,	398.37					
2014, 08,	41866,	2014.6219,	397.30,	398.82,	397.37,	398.94,
397.30,	398.82					
2014, 09,	41897,	2014.7068,	395.49,	398.93,	395.64,	399.10,
395.49,	398.93					
2014, 10,	41927,	2014.7890,	395.74,	399.30,	395.71,	399.26,
395.74,	399.30					
2014, 11,	41958,	2014.8740,	397.32,	399.55,	397.22,	399.43,
397.32,	399.55					

2014, 12,	41988,	2014.9562,	398.89,	399.80,	398.70,	399.59,
398.89,	399.80					
2015, 01,	42019,	2015.0411,	399.95,	399.89,	399.83,	399.77,
399.95,	399.89					
2015, 02,	42050,	2015.1260,	400.39,	399.64,	400.71,	399.94,
400.39,	399.64					
2015, 03,	42078,	2015.2027,	401.60,	400.07,	401.65,	400.11,
401.60,	400.07					
2015, 04,	42109,	2015.2877,	403.53,	400.77,	403.08,	400.30,
403.53,	400.77					
2015, 05,	42139,	2015.3699,	404.04,	400.68,	403.86,	400.50,
404.04,	400.68					
2015, 06,	42170,	2015.4548,	402.81,	400.26,	403.24,	400.72,
402.81,	400.26					
2015, 07,	42200,	2015.5370,	401.54,	400.74,	401.72,	400.95,
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2015, 09,	42262,	2015.7068,	397.43,	400.88,	398.03,	401.50,
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2016, 04,	42475,	2016.2896,	407.50,	404.71,	406.41,	403.60,
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2016, 06,	42536,	2016.4563,	406.94,	404.42,	406.60,	404.09,
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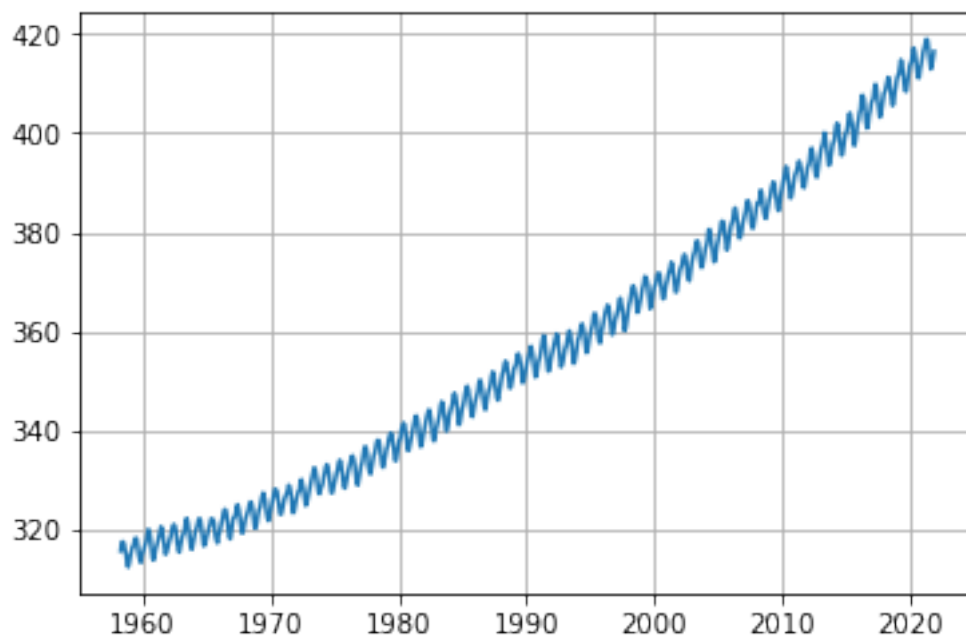
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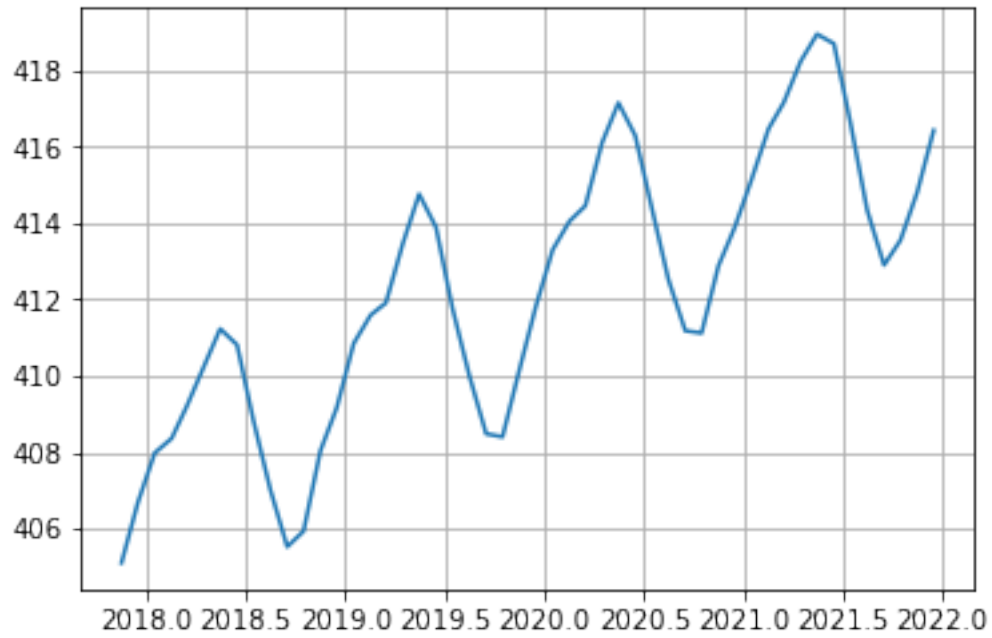
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```

```
[5]: years = []
      co2 = []
      for line in data:
          splitted = line.split(",")
          y = float(splitted[3])
          c = float(splitted[8])
          if c > 0:
              years.append(y)
              co2.append(c)

      import matplotlib.pyplot as plt
      plt.plot(years, co2)
      plt.grid()
```



```
[3]: plt.plot(years[-50:], co2[-50:])
      plt.grid()
```



```
[9]: #max co2 value  
a = (co2)  
x = max(a)  
  
print(x)
```

418.95

```
[ ]:
```

```
[ ]:
```