

波 数 表

空气中的波长—真空中的波数换算表

波长范围 2000—10000 Å

H. 凱 塞 尔

科 学 出 版 社

5-761074
4

波 数 表

空气中的波长—真空中的波数换算表

波长范围 2000—10000 Å

H. 凱 塞 尔 著

张 佩 环 译

科 学 出 版 社

1964

H. KAYSER
TABELLE DER SCHWINGUNGSZAHLEN
der auf das Vakuum reduzierten Wellenlängen
zwischen λ 2000 Å und λ 10000 Å

內 容 簡 介

本书的原版是由来比錫的 S. Hirzel 出版公司在 1925 年出版的, 中譯本是根据 Edwards Brothers, Inc. 在 1944 年出版的修訂本翻譯的。

內容为空气中的波长—真空中的波数換算表, 波长范围由 2000 至 10000 Å, 可供原子光譜学及分子光譜学研究工作查閱。

波 数 表
空气中的波长—真空中的波数換算表
波长范围 2000—10000 Å

H. 凱塞爾 著
張 佩 环 譯

*

科学出版社出版 (北京朝陽門大街 117 号)
北京市书刊出版业营业許可証出字第 061 号

中国科学院印刷厂印刷 新华书店总經售

*

1964 年 7 月第 一 版	书号: 2836	字数: 表格本
1964 年 7 月第一次印刷	开本: 787×1092	1/16
(京) 0001—3,700	印张: 7	

定价: [科七] 1.50 元

原 序

Hartley 首先提出一个重要的意見說，对于某些元素來說，所有三重綫分支之間的距离都相等，只要我們不用波长而用頻率 $\nu = \frac{v}{\lambda}$ 来表示这些距离，此处 v 是光的传播速度。进一步的研究表明了，在光譜結構中所有的規律性只有在利用頻率时才能明显地看得出来。

因为这些規律性允許人們对发射的粒子的結構作出結論，所以在近来一个时期人們花了日益加多的力量去探索它們，并且获得了日益加多的成效，因而每一个在这一領域內工作的人都感觉到有必要将由实验得出的波长換算成頻率。但是上述的 ν 的表式还是不肯定的，因为波长与光綫在其中传播的空氣的温度和压强有关。我們必須选用一个意义完全明确的表式 $\nu_0 = \frac{v_0}{\lambda_0}$ ，这里脚碼 0 表示所有的值都是以真空为依据的。我們可以用 1 代替 ν_0 ，这样 ν_0 就表示所討論的光綫在路程 1（究竟是米或是厘米或是毫米，則各按其位数来决定）中所完成的振动数目，近来人們常称这数值为波数(wave number)。

現在应当用这样定义的 ν_0 去探討規律性，为此首先要将波长化为在真空中的数值，然后計算它的倒数。真空波长是按照著名的公式 $\frac{\lambda_0}{\lambda} = \frac{v_0}{v}$ ，即 $\lambda_0 = \lambda \frac{v_0}{v} = \lambda n$ 換算出来的，后式中的 n 表示空气对于所研究的波长的折射率。空气折射率的最可靠測定得归功于 W. F. Meggers 及 C. G. Peters (Bull. Bur. of Standards, 14, p. 697, 1917)，他們对在 15°C 及正常大气压下的空气——波长是用国际公認的 Å 来量的——給出了如下的內插公式：

$$(n - 1)10^7 = 2726.43 + \frac{12.288}{\lambda^2 \times 10^{-8}} + \frac{0.3555}{\lambda^4 \times 10^{-16}}$$

此公式对 2000 Å 至 10000 Å 之間的波长是有效的。本来对最长或最短的波长还应加一点小的修正，但是在这些区域中由于缺少足够准确的标准，波长的測定也是不太准确的；因此目前人們可以并且必須对这公式感到滿意。

照这样計算看来好象很簡單，但是实际上却要遇到相当的困难。我們很容易看出，如果对波长來說千分之一 Å 还有意义——目前許多光譜綫已达到此数——則倒数必須准确計算出八位，至少七位数字。这是一般七位对数表所不能胜任的，而若要用十位或更多位的去計算，如果需要計算 100 个甚至 1000 个倒数时，这对計算者來說是一个极不寻常的要求。很不巧，也沒有現成的将折射率計算出来的表，而是要由前面所举出的公式求出每

一个数值。

由于数目很大而且愈来愈多的研究者都需要从事此项工作，因而要花费巨量的工作时间。我感觉到要是利用我晚年的空闲时间计算一个可以直读出每个波长的倒数的表，那对科学将是有益的，这工作之所以能够完成，是因为有一台电动计算机供我使用，这台计算机是 Helmholtz 公司送给研究所的赠品，对此我在这里表示感谢。

在下表中可以找出换算到真空中的波长的倒数。在 2000—7000 Å 之间两相邻数值相隔 0.1 Å，7000—10000 Å 间则是相隔 1 Å。尾数比例表则可计算到百分之一或千分之一。

计算是这样进行的：首先按照 Meggers-Peters 公式用对数表算出每个整数埃 (A. E.) 的 $(n - 1)$ 值，在此处用对数表计算是足够精确的了。我们可以在表中的倒数第二纵行找到这些数值。在 7000 Å 以上计算是对每隔 10 Å 进行的，这样做在这儿是足够了，因为折射率只是很慢地、几乎是直线式地改变。将所涉及的波长乘上 $(n - 1)$ 得到末一纵行的数值；为了将波长换算到真空中的数值波长必须增大这么多。因为由 $\lambda_0 = n\lambda$ 得 $\lambda_0 - \lambda = \lambda n - \lambda = \lambda(n - 1)$ ，于是 $\lambda_0 = \lambda + \lambda(n - 1)$ 。

然后我制订了含有换算到真空中的、间隔为 0.1 Å (7000 Å 以上间隔为 1 Å) 的 λ 值的表；其中相隔 1 Å 或 10 Å 的直接计算值之间的值是由线性内插得到的。然后由这个表中的数值用电动计算机求出其倒数。

在倒数的第 7 位后面我点上了一个点，这表示到第 7 位数是严格的正确，而第 8 位数可能有误差，这些误差对最短的波长可能差三单位，对最长波长可能差 1~2 单位。第 8 位的误差的来由是因为计算机只允许安置 8 位的除数。

关于表的格式除了以下一点外，几乎没有什么需要说的了：它是建立在一个对数表格式的基础之上。在第一纵行中的前三位数适用于其后的所有数目，直到三个新的数字出现。当数字用一个星号表出时，那就表示这数字的头三位数应该是下一横行的前三位数。

现在举一个例子：要找铁谱线 3850.821 校正到真空中的波长的倒数。对 3850.8，在 38 页中第一横行上面写 8 的纵行中找到 2596129.4 这数值，它和相邻数目之差为 67.4。在尾数比例表 67 中对于 0.02 Å 为 13.4，对于 0.001 Å 为 0.7，二者之和为 14.1，从 2596129.4 减去 14.1，即得到 2596115.3。

我已经尽了极大的努力，小心谨慎，不使抄写和印刷错误出现；但是如果希望在计算、抄写和校对近乎 64000 个五位数的过程中不会不知不觉地发生一点儿注意不到的错误，那似乎是太狂妄自负了。假如我们把每个数值看成是它的左右或上下的相邻数值的平均值时，那末当发现一个错误时倒是容易把它更正的。

1925 年 2 月于波恩

H. Kayser

SE170

	0	1	2	3	4	5	6	7	8	9	$(n-1) \times 10^7$	$\lambda(n-1) \times 10^7$
2000	499 8372.5	8122.7	7872.9	7623.1	7373.3	7123.5	6873.7	6624.0	6374.3	6124.7	3255.82	0.65 116
01	5875.1	5625.3	5375.7	5126.2	4876.7	4627.2	4377.7	4128.2	3878.7	3629.3	55.07	134
02	3380.0	3130.6	2881.1	2631.8	2382.6	2133.3	1884.1	1634.9	1385.6	1136.4	54.32	151
03	0887.3	0638.3	0389.2	0140.2	*9891.0	*9642.0	*9393.0	*9144.1	*8895.2	*8646.1	53.57	169
04	498 8397.2	8148.4	7899.6	7650.8	7402.0	7153.0	6904.3	6655.7	6407.0	6158.4	52.82	187
05	5909.8	5661.0	5412.4	5163.9	4915.3	4666.8	4418.2	4169.7	3921.3	3672.9	52.08	204
06	3424.6	3176.2	2927.7	2679.4	2431.2	2182.9	1934.7	1686.3	1438.1	1190.0	51.34	222
07	0941.9	0693.8	0445.7	0197.4	*9949.4	*9701.4	*9453.5	*9205.5	*8957.6	*8709.5	50.60	240
08	497 8461.6	8213.8	7966.0	7718.2	7470.4	7222.6	6974.7	6727.0	6479.4	6231.7	49.86	257
09	5983.9	5736.3	5488.7	5241.2	4993.6	4746.1	4498.5	4251.0	4003.6	3756.2	49.12	275
2010	497 3508.8	3261.4	3013.9	2766.6	2519.3	2272.1	2024.9	1777.4	1530.2	1283.1	3248.38	0.65 292
11	1036.0	0788.9	0541.8	0294.6	0047.5	*9800.5	*9553.5	*9306.5	*9059.6	*8812.5	47.65	310
12	496 8565.6	8318.7	8071.9	7825.0	7578.1	7331.3	7084.6	6837.9	6591.2	6344.5	46.91	328
13	6097.6	5851.0	5604.4	5357.9	5111.4	4864.6	4618.1	4371.6	4125.2	3878.8	46.18	346
14	3632.4	3385.8	3139.5	2893.1	2646.9	2400.6	2154.3	1907.9	1661.7	1415.5	45.44	363
15	1169.4	0923.2	0676.9	0430.8	0184.8	*9938.8	*9692.8	*9446.8	*9200.8	*8954.7	44.71	381
16	495 8708.8	8462.9	8217.1	7971.2	7725.2	7479.4	7233.6	6987.9	6742.2	6496.3	43.99	399
17	6250.6	6005.0	5759.4	5513.8	5268.2	5022.5	4777.0	4531.5	4286.0	4040.6	43.27	417
18	3795.2	3549.7	3304.2	3058.8	2813.5	2568.2	2322.8	2077.5	1832.2	1587.0	42.54	434
19	1341.9	1096.7	0851.4	0606.3	0361.2	0116.1	*9871.1	*9625.9	*9380.9	*9135.9	41.82	452
2020	494 8891.0	8646.1	8401.2	8156.2	7911.3	7666.5	7421.4	7177.0	6932.2	6687.3	3241.10	0.65 470
21	6442.6	6197.9	5953.3	5708.7	5463.9	5219.3	4974.7	4730.2	4485.7	4241.3	40.37	488
22	3996.6	3752.2	3507.8	3263.4	3018.9	2774.5	2530.2	2285.9	2041.7	1797.4	39.65	506
23	1553.2	1308.8	1064.7	0820.5	0576.4	0332.3	0088.0	*9844.0	*9600.0	*9356.0	38.93	524
24	493 9112.1	8868.1	8624.0	8380.1	8136.2	7892.4	7648.5	7404.7	7160.8	6917.0	38.22	542
25	6673.3	6429.6	6185.9	5942.1	5698.4	5454.8	5211.2	4967.7	4724.2	4480.4	37.51	560
26	4236.9	3993.5	3750.0	3506.6	3263.0	3019.7	2776.3	2533.0	2289.7	2046.5	36.80	578
27	1803.1	1559.8	1316.6	1073.4	0830.0	0586.9	0343.8	0100.7	*9857.7	*9614.7	36.09	596
28	492 9371.7	9128.6	8885.5	8642.6	8399.7	8156.8	7913.9	7670.9	7428.0	7185.3	35.38	614
29	6942.5	6699.8	6456.9	6214.1	5971.5	5728.8	5486.2	5243.6	5000.8	4758.3	34.67	631
2030	492 4515.7	4273.2	4030.8	3788.3	3545.7	3303.3	3060.9	2818.5	2576.2	2333.7	3233.96	0.65 649
31	2091.4	1849.1	1606.9	1364.7	1122.5	0880.1	0637.9	0395.8	0153.7	*9911.7	33.25	667
32	491 9669.4	9427.4	9185.4	8943.4	8701.4	8459.3	8217.4	7975.5	7733.6	7491.8	32.55	685
33	7250.0	7008.0	6766.2	6524.5	6282.8	6041.1	5799.4	5557.6	5315.9	5074.3	31.85	704
34	4832.8	4591.2	4349.5	4108.0	3866.5	3625.1	3383.6	3142.2	2900.6	2659.3	31.15	722
35	2417.9	2176.6	1935.3	1693.8	1452.6	1211.4	0970.2	0729.0	0487.9	0246.5	30.44	740
36	0005.4	*9764.4	*9523.3	*9282.3	*9041.3	*8800.1	*8559.1	*8318.2	*8077.3	*7836.4	29.74	758
37	490 7595.3	7354.5	7113.7	6872.9	6632.1	6391.2	6150.4	5909.8	5669.1	5428.4	29.04	776
38	5187.8	4947.0	4706.4	4465.9	4225.3	3984.8	3744.1	3503.7	3263.2	3022.8	28.35	794
39	2782.4	2542.1	2301.6	2061.2	1820.9	1580.6	1340.4	1099.9	0859.7	0619.6	27.66	812
2040	490 0379.4	0139.3	*9899.2	*9658.9	*9418.8	*9178.8	*8938.8	*8698.8	*8458.8	*8218.7	3226.97	0.65 830
41	489 7978.7	7738.8	7499.0	7259.1	7019.1	6779.3	6539.5	6299.7	6060.0	5820.3	26.27	848
42	5580.5	5340.7	5101.1	4861.5	4621.9	4382.1	4142.6	3903.1	3663.6	3424.1	25.58	866
43	3184.7	2945.0	2705.6	2466.2	2226.9	1987.6	1748.0	1508.7	1269.5	1030.2	24.89	884
44	0791.0	0551.6	0312.4	0073.3	*9834.2	*9595.1	*9356.0	*9116.7	*8877.7	*8638.7	24.21	903
45	488 8399.7	8160.8	7921.6	7682.7	7443.8	7205.0	6966.1	6727.3	6488.3	6249.5	23.52	921
46	6010.8	5772.1	5533.4	5294.6	5055.8	4817.2	4578.6	4340.0	4101.2	3862.7	22.84	939
47	3624.2	3385.7	3147.2	2908.8	2670.2	2431.7	2193.4	1955.0	1716.7	1478.4	22.16	958
48	1239.9	1001.6	0763.4	0525.2	0287.0	0048.6	*9810.5	*9572.4	*9334.3	*9096.2	21.48	976
49	487 8858.1	8619.9	8381.9	8143.9	7906.0	7668.0	7429.9	7192.0	6954.2	6716.3	20.80	994
2050	487 6478.5	6240.7	6002.7	5765.0	5527.3	5289.6	5051.9	4814.0	4576.4	4338.8	3220.12	0.66 012

	250	249	248	247	246	245	244	243	242	241	240	239	238
1	25.0	24.9	24.8	24.7	24.6	24.5	24.4	24.3	24.2	24.1	24.0	23.9	23.8
2	50.0	49.8	49.6	49.4	49.2	49.0	48.8	48.6	48.4	48.2	48.0	47.8	47.6
3	75.0	74.7	74.4	74.1	73.8	73.5	73.2	72.9	72.6	72.3	72.0	71.7	71.4
4	100.0	99.6	99.2	98.8	98.4	98.0	97.6	97.2	96.8	96.4	96.0	95.6	95.2
5	125.0	124.5	124.0	123.5	123.0	122.5	122.0	121.5	121.0	120.5	120.0	119.5	119.0
6	150.0	149.4	148.8	148.2	147.6	147.0	146.4	145.8	145.2	144.6	144.0	143.4	142.8
7	175.0	174.3	173.6	172.9	172.2	171.5	170.8	170.1	169.4	168.7	168.0	167.3	166.6
8	200.0	199.2	198.4	197.6	196.8	196.0	195.2	194.4	193.6	192.8	192.0	191.2	190.4
9	225.0	224.1	223.2	222.3	221.4	220.5	219.6	218.7	217.8	216.9	216.0	215.1	214.2

	0	1	2	3	4	5	6	7	8	9	$(n-1) \times 10^7$	$\lambda(n-1) \times 10^7$
2050	487 6478.5	6240.7	6002.7	5765.0	5527.3	5289.6	5051.9	4814.0	4576.4	4338.8	3220.12	0.66 012
51	4101.2	3863.6	3625.9	3388.3	3150.9	2913.4	2676.0	2438.5	2200.9	1963.5	19.44	031
52	1726.2	1488.9	1251.6	1014.3	0776.8	0539.5	0302.3	0065.1	*0828.0	*0590.6	18.77	049
53	486 9353.5	9116.4	8879.3	8642.3	8405.3	8168.0	7931.0	7694.1	7457.1	7220.2	18.09	067
54	6983.1	6746.2	6509.4	6272.6	6035.8	5798.8	5562.0	5325.3	5088.6	4851.9	17.42	085
55	4615.3	4378.4	4141.8	3905.2	3668.6	3432.1	3195.3	2958.9	2722.4	2485.9	16.65	104
56	2249.5	2012.9	1776.5	1540.1	1303.8	1067.5	0831.2	0594.7	0358.4	0122.2	16.08	123
57	485 9886.0	9649.9	9413.5	9177.3	8941.2	8705.2	8469.1	8233.1	7996.8	7760.8	15.41	141
58	7524.9	7288.9	7053.0	6816.9	6581.0	6345.1	6109.3	5873.5	5637.7	5401.7	14.74	159
59	5166.0	4930.3	4694.6	4458.9	4223.0	3987.4	3751.8	3516.2	3280.7	3045.1	14.07	178
2060	485 2809.4	2573.9	2338.4	2103.0	1867.6	1631.9	1396.6	1161.2	0925.9	0690.6	3213.41	0.66 196
61	0455.1	0219.8	*9984.6	*9749.4	*9514.2	*9279.0	*9043.6	*8808.5	*8573.4	*8338.3	12.74	215
62	484 8103.3	7868.0	7633.0	7398.0	7163.1	6928.1	6693.2	6458.1	6223.2	5988.4	12.08	233
63	5753.6	5518.8	5283.7	5049.0	4814.2	4579.5	4344.9	4110.0	3875.3	3640.7	11.42	252
64	3406.1	3171.5	2937.0	2702.2	2467.7	2233.2	1998.8	1764.3	1529.7	1295.3	10.76	270
65	1060.9	0826.6	0592.2	0357.9	0123.4	*0889.2	*0654.9	*0420.7	*0186.5	*8952.1	10.10	289
66	483 8718.0	8483.9	8249.8	8015.7	7781.6	7547.4	7313.4	7079.4	6845.4	6611.5	09.44	307
67	6377.3	6143.4	5909.6	5675.7	5441.9	5207.8	4974.1	4740.3	4506.6	4272.9	08.78	325
68	4039.2	3805.3	3571.6	3338.0	3104.4	2870.8	2637.0	2403.5	2170.0	1936.5	08.13	344
69	1703.0	1469.4	1235.9	1002.5	0769.2	0535.8	0302.5	0068.9	*9835.7	*9602.4	07.47	363
2070	482 9369.2	9135.9	8902.5	8669.3	8436.2	8203.1	7970.0	7736.9	7503.6	7270.6	3206.82	0.66 381
71	7037.5	6804.5	6571.6	6338.4	6105.5	5872.6	5639.7	5406.8	5174.0	4941.7	06.17	400
72	4708.2	4475.4	4242.7	4009.9	3777.0	3544.3	3311.7	3079.0	2846.4	2613.6	05.52	418
73	2381.0	2148.5	1916.0	1683.5	1450.8	1218.3	0985.9	0753.5	0521.1	0288.7	04.87	437
74	0056.2	*0823.8	*0591.6	*0359.3	*0127.0	*8894.6	8662.4	8430.2	8198.0	7965.9	04.22	456
75	481 7733.8	7501.4	7269.4	7037.3	6805.3	6573.3	6341.1	6109.1	5877.2	5645.2	03.58	474
76	5413.4	5181.3	4949.4	4717.6	4485.8	4254.0	4022.2	3790.3	3558.6	3326.9	02.93	493
77	3095.2	2863.5	2631.7	2400.1	2168.5	1936.9	1705.4	1473.9	1242.2	1010.7	02.29	512
78	0779.3	0547.8	0316.4	0084.8	*9853.5	*9622.1	*9390.8	*9159.5	*8928.0	*8696.8	01.65	530
79	480 8465.5	8234.3	8003.2	7771.8	7540.6	7309.5	7078.4	6847.4	6616.3	6385.1	01.01	549
2080	480 6154.1	5923.1	5692.1	5461.2	5230.0	4999.1	4768.3	4537.4	4306.6	4075.8	3200.37	0.66 568
81	3844.8	3614.0	3383.3	3152.6	2921.9	2691.0	2460.3	2229.7	1999.1	1768.5	3199.73	586
82	1537.7	1307.2	1076.7	0846.2	0615.7	0385.1	0154.6	*9924.2	*9693.8	*9463.5	99.10	605
83	479 9233.1	9002.6	8772.3	8542.0	8311.8	8081.6	7851.1	7620.9	7390.8	7160.6	98.46	624
84	6930.5	6700.2	6470.1	6240.1	6010.1	5780.0	5550.1	5319.9	5089.9	4860.0	97.83	643
85	4630.1	4400.2	4170.2	3940.3	3710.3	3480.7	3251.0	3021.0	2791.3	2561.6	97.20	662
86	2331.9	2102.3	1872.6	1642.8	1413.2	1183.6	0954.1	0724.6	0494.8	0265.4	96.57	680
87	0035.9	*9806.5	*9577.1	*9347.4	*9118.1	*8888.7	*8659.4	*8430.1	*8200.8	*7971.3	95.94	699
88	478 7742.1	7512.9	7283.7	7054.5	6825.2	6596.0	6366.9	6137.8	5908.8	5679.5	95.31	718
89	5450.5	5221.5	4992.5	4763.5	4534.4	4305.3	4076.6	3847.8	3618.9	3390.1	94.69	737
2090	478 3161.1	2932.3	2703.6	2474.8	2246.1	2017.2	1788.5	1559.9	1331.3	1102.7	3194.06	0.66 755
91	0873.9	0645.3	0416.8	0188.2	*9959.8	*9731.1	*9502.6	*9274.2	*9045.8	*8817.4	93.43	775
92	477 8589.0	8360.5	8132.2	7903.9	7675.6	7447.3	7218.9	6990.7	6762.5	6534.3	92.81	794
93	6306.2	6078.1	5849.7	5621.7	5393.6	5165.6	4937.6	4709.3	4481.4	4253.4	92.18	812
94	4025.5	3797.6	3569.5	3341.6	3113.8	2886.0	2658.2	2430.4	2202.4	1974.7	91.56	831
95	1747.0	1519.3	1291.7	1063.8	0836.2	0608.6	0381.0	0153.4	*9925.7	*9698.2	90.94	850
96	476 9470.7	9243.2	9015.8	8788.1	8560.7	8333.3	8106.0	7878.6	7651.3	7423.8	90.32	869
97	7196.5	6969.3	6742.0	6514.8	6287.4	6060.3	5833.1	5606.0	5378.9	5151.6	89.70	888
98	4924.5	4697.5	4470.5	4243.5	4016.3	3789.4	3562.4	3335.5	3108.6	2881.8	89.08	907
99	2654.7	2427.9	2201.1	1974.3	1747.6	1520.6	1293.9	1067.2	0840.6	0613.9	88.47	926
2100	476 0387.1	0160.5	*9933.9	*9707.3	*9480.8	*9254.0	*9027.5	*8801.1	*8574.6	*8348.2	3187.86	0.66 945

	238	237	236	235	234	233	232	231	230	229	228	227	226
1	23.8	23.7	23.6	23.5	23.4	23.3	23.2	23.1	23.0	22.9	22.8	22.7	22.6
2	47.6	47.4	47.2	47.0	46.8	46.6	46.4	46.2	46.0	45.8	45.6	45.4	45.2
3	71.4	71.1	70.8	70.5	70.2	69.9	69.6	69.3	69.0	68.7	68.4	68.1	67.8
4	95.2	94.8	94.4	94.0	93.6	93.2	92.8	92.4	92.0	91.6	91.2	90.8	90.4
5	119.0	118.5	118.0	117.5	117.0	116.5	116.0	115.5	115.0	114.5	114.0	113.5	113.0
6	142.8	142.2	141.6	141.0	140.4	139.8	139.2	138.6	138.0	137.4	136.8	136.2	135.6
7	166.6	165.9	165.2	164.5	163.8	163.1	162.4	161.7	161.0	160.3	159.6	158.9	158.2
8	190.4	189.6	188.8	188.0	187.2	186.4	185.6	184.8	184.0	183.2	182.4	181.6	180.8
9	214.2	213.3	212.4	211.5	210.6	209.7	208.8	207.9	207.0	206.1	205.2	204.3	203.4

	0	1	2	3	4	5	6	7	8	9	$(n-1) \times 10^2$	$\lambda(n-1) \times 10^2$
2100	476 0387.1	0160.5	*9933.9	*9707.3	*9480.8	*9254.0	*9027.5	*8801.1	*8574.6	*8348.2	3187.86	0.66 945
01	475 8121.8	7895.2	7668.8	7442.5	7216.1	6989.8	6763.3	6537.1	6310.8	6084.6	87.25	964
02	5858.4	5632.0	5405.9	5179.8	4953.6	4727.6	4501.5	4275.2	4049.2	3823.2	86.64	983
03	5597.2	5371.3	5145.1	4919.2	4693.3	4467.4	4241.5	4015.5	3789.7	3564.0	86.03	0.67 002
04	5338.2	5112.4	4886.5	4660.8	4435.1	4209.5	*9983.8	*9758.2	*9532.4	*9306.8	85.42	021
05	474 9081.3	8855.8	8630.3	8404.5	8179.1	7953.6	7728.2	7502.8	7277.2	7051.9	84.82	040
06	6826.5	6601.2	6375.9	6150.4	5925.2	5700.0	5474.7	5249.6	5024.4	4799.0	84.21	059
07	4573.9	4348.8	4123.7	3898.7	3673.4	3448.4	3223.4	2998.4	2773.5	2548.3	83.60	078
08	2323.4	2098.5	1873.7	1648.8	1423.8	1199.0	0974.2	0749.5	0524.7	0299.8	82.99	097
09	0075.1	*9850.4	*9625.8	*9401.1	*9176.3	*8951.7	*8727.1	*8502.6	*8278.1	*8053.6	82.39	117
2110	473 7828.9	7604.4	7380.0	7155.6	6931.2	6706.7	6482.2	6257.9	6034.6	5809.3	3181.79	0.67 136
11	5584.8	5360.5	5136.3	4912.1	4687.9	4463.5	4239.4	4015.3	3791.2	3567.1	81.19	155
12	3343.0	3118.8	2894.8	2670.8	2446.8	2222.9	1998.7	1774.8	1550.9	1327.0	80.59	174
13	1103.2	0879.2	0655.4	0431.6	0207.8	*9984.1	*9760.4	*9536.4	*9312.8	*9089.1	79.99	193
14	472 8865.5	8641.1	8418.1	8194.5	7970.9	7747.4	7523.9	7300.2	7076.7	6853.3	79.39	212
15	6629.9	6406.5	6182.9	5959.5	5736.2	5512.9	5289.6	5066.1	4842.8	4619.6	78.79	231
16	4396.4	4173.2	3949.8	3726.7	3503.5	3280.4	3057.3	2834.3	2611.0	2388.0	78.20	251
17	2165.0	1942.0	1719.1	1495.9	1273.0	1050.1	0827.2	0604.4	0381.3	0158.5	77.60	270
18	471 9935.7	9712.9	9490.2	9267.3	9044.6	8821.9	8599.2	8376.6	8153.9	7931.1	77.01	289
19	7708.5	7486.0	7263.5	7040.9	6818.2	6595.7	6373.3	6150.9	5928.5	5705.8	76.42	308
2120	471 5483.5	5261.1	5038.8	4816.5	4594.0	4371.7	4149.5	3927.3	3705.1	3482.7	3175.83	0.67 328
21	3260.5	3038.4	2816.2	2594.1	2371.8	2149.8	1927.8	1705.7	1483.8	1261.8	75.24	347
22	1039.6	0817.7	0595.8	0373.9	0152.0	*9930.0	*9708.1	*9486.3	*9264.6	*9042.8	74.65	366
23	470 8820.8	8599.1	8377.4	8155.7	7934.1	7712.2	7490.6	7269.0	7047.4	6825.9	74.07	386
24	6604.1	6382.6	6161.1	5939.7	5718.2	5496.6	5275.2	5053.8	4832.4	4611.1	73.48	405
25	4389.7	4168.2	3946.9	3725.7	3504.4	3283.2	3061.8	2840.6	2619.5	2398.3	72.89	424
26	2177.2	1955.9	1734.8	1513.8	1292.7	1071.7	0850.7	0629.5	0408.6	0187.7	72.31	443
27	469 9966.8	9745.9	9524.8	9303.9	9083.1	8862.3	8641.5	8420.5	8199.8	7979.1	71.73	462
28	7758.4	7537.7	7316.8	7096.2	6875.6	6655.0	6434.4	6213.6	5993.1	5772.6	71.15	481
29	5552.1	5331.6	5110.9	4890.5	4670.1	4449.7	4229.3	4008.8	3788.5	3568.6	70.57	501
2130	469 3347.9	3127.6	2907.1	2686.9	2466.7	2246.5	2026.4	1806.2	1585.9	1365.8	3169.99	0.67 521
31	1145.7	0925.6	0705.6	0485.4	0265.4	0045.4	*9825.4	*9605.5	*9385.4	*9165.5	69.41	540
32	468 8945.6	8725.8	8505.9	8285.9	8066.1	7846.3	7626.6	7406.9	7186.9	6967.2	68.84	560
33	6747.6	6527.9	6308.3	6088.5	5868.9	5649.3	5429.8	5210.3	4990.6	4771.1	68.26	579
34	4551.6	4332.2	4112.8	3893.1	3673.8	3454.4	3235.1	3015.7	2796.4	2577.0	67.69	599
35	2357.7	2138.5	1919.2	1700.1	1480.7	1261.5	1042.4	0823.3	0604.2	0384.9	67.11	618
36	0165.8	*9946.8	*9727.8	*9508.8	*9289.6	*9070.7	*8851.8	*8632.8	*8414.0	*8194.9	66.54	637
37	467 7976.0	7757.2	7538.4	7319.6	7100.6	6881.9	6663.2	6444.5	6225.8	6007.1	65.97	657
38	5788.3	5569.6	5351.1	5132.5	4913.9	4695.2	4476.6	4258.1	4039.7	3821.2	65.40	676
39	3602.6	3384.1	3165.7	2947.4	2729.0	2510.5	2292.1	2073.9	1855.6	1637.3	64.83	696
2140	467 1418.9	1200.7	0982.5	0764.3	0546.2	0327.8	0109.7	*9891.6	*9673.5	*9455.5	3164.26	0.67 715
41	466 9237.2	9019.2	8801.3	8583.3	8365.3	8147.2	7929.3	7711.4	7493.5	7275.7	63.69	735
42	7057.9	6839.8	6622.1	6404.3	6186.6	5968.8	5750.9	5533.2	5315.6	5097.9	63.13	754
43	4880.3	4662.5	4444.9	4227.4	4009.8	3792.3	3574.6	3357.1	3139.6	2922.2	62.56	773
44	2704.8	2487.2	2269.8	2052.4	1835.1	1617.8	1400.3	1183.0	0965.7	0748.5	62.00	793
45	0531.3	0313.9	0096.7	*9879.5	*9662.4	*9445.3	*9228.2	*9010.9	*8793.8	*8576.8	61.43	813
46	465 8359.8	8142.8	7925.6	7708.7	7491.7	7274.8	7057.9	6840.8	6624.0	6407.2	60.87	832
47	6190.3	5973.6	5756.6	5539.8	5323.1	5106.4	4889.7	4672.8	4456.1	4239.5	60.31	852
48	4022.9	3806.3	3589.5	3373.0	3156.5	2939.9	2723.5	2506.8	2290.3	2073.9	59.75	871
49	1857.5	1641.1	1424.5	1208.2	0991.8	0775.5	0559.2	0342.8	0126.5	*9910.3	59.19	891
2150	464 9694.1	9477.8	9261.5	9045.4	8829.2	8613.1	8397.1	8181.0	7964.7	7748.7	3158.63	0.67 911

	228	227	226	225	224	223	222	221	220	219	218	217	216
1	22.8	22.7	22.6	22.5	22.4	22.3	22.2	22.1	22.0	21.9	21.8	21.7	21.6
2	45.6	45.4	45.2	45.0	44.8	44.6	44.4	44.2	44.0	43.8	43.6	43.4	43.2
3	68.4	68.1	67.8	67.5	67.2	66.9	66.6	66.3	66.0	65.7	65.4	65.1	64.8
4	91.2	90.8	90.4	90.0	89.6	89.2	88.8	88.4	88.0	87.6	87.2	86.8	86.4
5	114.0	113.5	113.0	112.5	112.0	111.5	111.0	110.5	110.0	109.5	109.0	108.5	108.0
6	136.8	136.2	135.6	135.0	134.4	133.8	133.2	132.6	132.0	131.4	130.8	130.2	129.6
7	159.6	158.9	158.2	157.5	156.8	156.1	155.4	154.7	154.0	153.3	152.6	151.9	151.2
8	182.4	181.6	180.8	180.0	179.2	178.4	177.6	176.8	176.0	175.2	174.4	173.6	172.8
9	205.2	204.3	203.4	202.5	201.6	200.7	199.8	198.9	198.0	197.1	196.2	195.3	194.4

	0	1	2	3	4	5	6	7	8	9	$(n-1) \times 10^7$	$\lambda(n-1) \times 10^7$
2150	464 9694.1	9477.9	9261.6	9045.4	8829.2	8613.1	8397.1	8181.0	7964.8	7748.7	3158.63	0.67911
51	7532.7	7316.7	7100.7	6884.6	6668.7	6452.8	6236.9	6021.0	5804.9	5589.1	58.08	930
52	5373.3	5157.5	4941.7	4725.8	4510.1	4294.4	4078.7	3863.0	3647.2	3431.5	57.53	950
53	3215.9	3000.3	2784.7	2569.0	2353.5	2138.0	1922.5	1707.0	1491.4	1275.0	56.97	970
54	1060.6	0845.2	0629.8	0414.2	0198.9	*9983.6	*9768.3	*9553.0	*9337.6	*9122.4	56.42	989
55	463 8907.2	8692.0	8476.8	8261.5	8046.3	7831.2	7616.2	7401.1	7185.8	6970.8	55.87	0.68 009
56	6755.8	6540.8	6325.9	6110.7	5895.8	5680.9	5466.0	5251.1	5036.3	4821.2	55.32	029
57	4606.4	4391.6	4176.9	3962.1	3747.2	3532.5	3317.8	3103.1	2888.5	2673.6	54.77	048
58	2459.0	2244.4	2029.9	1815.3	1600.6	1386.1	1171.6	0957.1	0742.7	0528.0	54.22	068
59	0313.6	0099.2	*9884.9	*9670.5	*9456.0	*9241.7	*9027.4	*8813.1	*8598.9	*8384.4	53.67	088
2160	462 8170.2	7956.0	7741.8	7527.7	7313.4	7099.2	6885.2	6671.1	6457.0	6242.8	3153.12	0.68 107
61	6028.8	5814.8	5600.8	5386.9	5172.7	4958.8	4744.9	4531.0	4317.2	4103.1	52.58	127
62	3889.3	3675.5	3461.8	3248.0	3034.1	2820.3	2606.6	2393.0	2179.3	1965.5	52.03	147
63	1751.8	1538.3	1324.7	1111.1	0897.4	0683.9	0470.4	0256.9	0043.4	*9830.0	51.49	167
64	461 9616.3	9402.9	9189.6	8976.2	8762.9	8549.3	8336.0	8122.8	7909.5	7696.3	50.94	186
65	7482.8	7269.6	7056.4	6843.3	6630.1	6416.8	6203.7	5990.6	5777.5	5564.5	50.40	206
66	5351.3	5138.3	4925.3	4712.3	4499.4	4286.2	4073.3	3860.4	3647.6	3434.7	49.86	226
67	3221.7	3008.9	2796.1	2583.3	2370.6	2157.6	1944.9	1732.2	1519.5	1306.9	49.32	246
68	1094.0	0881.4	0668.8	0456.3	0243.7	0031.0	*9818.5	*9606.0	*9393.5	*9181.0	48.78	266
69	460 8968.4	8756.0	8543.6	8331.2	8118.8	7906.3	7694.0	7481.7	7269.4	7057.1	48.24	285
2170	460 6844.7	6632.5	6420.3	6208.1	5995.9	5783.6	5571.4	5359.3	5147.3	4935.2	3147.70	0.68 305
71	4722.9	4510.9	4298.9	4086.9	3874.9	3662.8	3450.9	3239.0	3027.1	2815.2	47.17	325
72	2603.1	2391.3	2179.5	1967.7	1755.9	1544.0	1332.2	1120.5	0908.8	0697.2	46.64	345
73	0485.3	0273.7	0062.0	*9850.4	*9638.9	*9427.1	*9215.6	*9004.0	*8792.5	*8581.1	46.10	365
74	459 8369.4	8158.0	7946.5	7735.1	7523.8	7312.2	7100.9	6889.5	6678.2	6466.9	45.57	385
75	6255.4	6044.2	5833.0	5621.8	5410.6	5199.2	4988.0	4776.9	4565.8	4354.7	45.04	405
76	4143.4	3932.4	3721.4	3510.3	3299.3	3088.2	2877.2	2666.3	2455.4	2244.5	44.51	425
77	2033.4	1822.5	1611.7	1400.9	1190.1	0979.1	0768.3	0557.6	0346.8	0136.1	43.98	445
78	458 9925.2	9714.6	9503.9	9293.3	9082.7	8871.9	8661.3	8450.8	8240.3	8029.7	43.46	465
79	7819.3	7608.6	7398.1	7187.7	6977.3	6766.9	6556.3	6345.9	6135.6	5925.3	42.93	484
2180	458 5715.0	5504.5	5294.2	5084.0	4873.8	4663.6	4453.2	4243.0	4032.9	3822.8	3142.40	0.68 504
81	3612.7	3402.4	3192.3	2982.2	2772.2	2562.2	2352.2	2142.3	1932.3	1722.4	41.78	523
82	1512.5	1302.4	1092.5	0882.6	0672.8	0463.0	0253.0	0043.2	*9833.4	*9623.7	41.35	544
83	457 9414.0	9204.1	8994.4	8784.7	8575.1	8365.5	8155.6	7946.1	7736.5	7526.9	40.83	564
84	7317.4	7107.7	6898.2	6688.7	6479.3	6269.8	6060.2	5850.8	5641.5	5432.1	40.30	584
85	5222.8	5013.2	4803.9	4594.7	4385.4	4176.2	3966.7	3757.5	3548.3	3339.2	39.78	604
86	3130.0	2920.7	2711.6	2502.5	2293.4	2084.4	1875.2	1666.1	1457.2	1248.2	39.26	624
87	1039.2	0830.1	0621.2	0412.3	0203.4	*9994.5	*9785.5	*9576.7	*9367.9	*9159.1	38.74	644
88	456 8950.3	8741.4	8532.6	8323.9	8115.3	7906.6	7697.7	7489.1	7280.5	7071.9	38.22	664
89	6863.3	6654.6	6446.0	6237.5	6029.0	5820.5	5611.9	5403.4	5195.0	4986.6	37.71	684
2190	456 4778.2	4569.7	4361.3	4153.0	3944.7	3736.4	3527.9	3319.7	3111.5	2903.2	3137.19	0.68 704
91	2695.1	2486.7	2278.5	2070.4	1862.3	1654.0	1445.9	1237.8	1029.8	0821.8	36.67	724
92	0613.4	0405.4	0197.4	*9989.5	*9781.5	*9573.4	*9365.5	*9157.7	*8949.8	*8742.0	36.16	745
93	455 8534.0	8326.2	8118.4	7910.6	7702.9	7495.0	7287.3	7079.6	6871.9	6664.3	35.64	765
94	6456.5	6248.9	6041.3	5833.7	5626.2	5418.4	5210.9	5003.4	4796.0	4588.5	35.13	785
95	4380.9	4173.5	3966.1	3758.7	3551.3	3343.8	3136.5	2929.2	2721.9	2514.6	34.61	805
96	2307.2	2099.9	1892.7	1685.5	1478.4	1271.0	1063.9	0856.8	0649.7	0442.6	34.10	825
97	0235.3	0028.3	*9821.3	*9614.3	*9407.3	*9200.1	*8993.2	*8786.3	*8579.4	*8372.5	33.59	845
98	454 8165.4	7958.6	7751.7	7544.9	7338.1	7131.1	6924.4	6717.7	6510.9	6304.2	33.09	865
99	6097.4	5890.7	5684.1	5477.4	5270.8	5064.0	4857.5	4650.9	4444.4	4237.9	32.58	885
2200	454 4031.2	3824.7	3618.3	3411.8	3205.4	2998.8	2792.4	2586.1	2379.7	2173.4	3132.07	0.68 906

	216	215	214	213	212	211	210	209	208	207	206
1	21.6	21.5	21.4	21.3	21.2	21.1	21.0	20.9	20.8	20.7	20.6
2	43.2	43.0	42.8	42.6	42.4	42.2	42.0	41.8	41.6	41.4	41.2
3	64.8	64.5	64.2	63.9	63.6	63.3	63.0	62.7	62.4	62.1	61.8
4	86.4	86.0	85.6	85.2	84.8	84.4	84.0	83.6	83.2	82.8	82.4
5	108.0	107.5	107.0	106.5	106.0	105.5	105.0	104.5	104.0	103.5	103.0
6	129.6	129.0	128.4	127.8	127.2	126.6	126.0	125.4	124.8	124.2	123.6
7	151.2	150.5	149.8	149.1	148.4	147.7	147.0	146.3	145.6	144.9	144.2
8	172.8	172.0	171.2	170.4	169.6	168.8	168.0	167.2	166.4	165.6	164.8
9	194.4	193.5	192.6	191.7	190.8	189.9	189.0	188.1	187.2	186.3	185.4

	0	1	2	3	4	5	6	7	8	9	$(n-1) \times 10^7$	$\lambda(n-1) \times 10^7$
2200	454 4031.2	3824.7	3618.3	3411.8	3205.4	2998.8	2792.4	2586.1	2379.7	2173.4	3132.07	0.68 906
01	1966.9	1760.6	1554.3	1348.1	1141.9	0935.4	0729.2	0523.1	0316.9	0110.8	31.57	926
02	453 9904.5	9698.4	9492.3	9286.2	9080.2	8874.0	8667.9	8462.0	8256.0	8050.0	31.06	946
03	7843.9	7638.0	7432.1	7226.2	7020.4	6814.3	6608.5	6402.7	6196.9	5991.2	30.56	966
04	5785.2	5579.5	5373.8	5168.1	4962.4	4756.6	4551.0	4345.3	4139.8	3934.2	30.03	986
05	3728.4	3522.9	3317.4	3111.9	2906.4	2700.7	2495.3	2289.8	2084.4	1878.8	29.55	0.69 006
06	1673.3	1467.9	1262.6	1057.3	851.8	646.5	441.2	236.0	030.8	*9825.4	29.03	027
07	452 9620.2	9415.0	9209.9	9004.7	8799.4	8594.3	8389.3	8184.2	7979.2	7773.9	28.55	047
08	7569.0	7364.0	7159.0	6954.1	6748.9	6544.0	6339.1	6134.3	5929.4	5724.4	28.05	067
09	5519.6	5314.8	5110.0	4905.3	4700.3	4495.6	4290.9	4086.2	3881.5	3676.7	27.55	088
2210	452 3472.1	3267.5	3062.9	2858.3	2653.7	2449.2	2244.7	2040.2	1835.7	1631.0	3127.05	0.69 108
11	1426.6	1222.7	1017.8	0813.4	0608.8	0404.5	0200.1	*9995.8	*9791.5	*9587.0	26.56	128
12	451 9382.8	9178.6	8974.3	8770.1	8565.7	8361.6	8157.4	7953.3	7749.0	7544.9	26.06	148
13	7340.8	7136.8	6932.7	6728.5	6524.5	6320.5	6116.6	5912.6	5708.5	5504.6	25.57	169
14	5300.7	5096.8	4893.0	4688.9	4485.1	4281.3	4077.6	3873.8	3669.8	3466.1	25.07	189
15	3262.4	3058.7	2855.1	2651.2	2447.6	2244.0	2040.4	1836.8	1633.0	1429.5	24.58	209
16	1226.0	1022.5	0819.0	0615.3	0411.9	0208.4	0005.0	*9801.6	*9598.1	*9394.7	24.09	230
17	450 9191.4	8988.1	8784.8	8581.3	8378.0	8174.8	7971.5	7768.3	7564.9	7361.8	23.60	250
18	7158.6	6955.5	6752.3	6549.0	6346.0	6142.9	5939.9	5736.6	5533.6	5330.6	23.10	270
19	5127.7	4924.7	4721.6	4518.7	4315.8	4112.9	3910.0	3707.0	3504.1	3301.3	22.61	291
2220	450 3098.6	2895.8	2692.9	2490.1	2287.4	2084.7	1882.0	1679.3	1476.5	1273.9	3122.12	0.69 311
21	1071.3	0868.7	0665.9	0463.4	0260.8	0058.3	*9855.8	*9653.1	*9450.7	*9248.2	21.63	331
22	449 9045.8	8843.4	8640.8	8438.5	8236.1	8033.8	7831.5	7629.0	7426.7	7224.4	21.15	352
23	7022.2	6820.0	6617.5	6415.4	6213.2	6011.0	5808.7	5606.6	5404.5	5202.4	20.67	372
24	5000.4	4798.1	4596.1	4394.1	4192.1	3990.1	3788.0	3586.1	3384.1	3182.2	20.19	393
25	2980.4	2778.3	2576.5	2374.6	2172.8	1971.0	1769.1	1567.3	1365.6	1163.9	19.71	414
26	0962.2	0760.3	0558.6	0357.0	0155.4	*9953.8	*9752.0	*9550.4	*9348.9	*9147.3	19.22	434
27	448 8945.8	8744.1	8542.6	8341.2	8139.7	7938.1	7736.7	7535.3	7333.9	7132.6	18.73	454
28	6931.0	6729.7	6528.4	6327.2	6125.9	5924.4	5723.2	5522.0	5320.8	5119.6	18.25	475
29	4918.3	4717.2	4516.0	4314.9	4113.9	3912.6	3711.5	3510.5	3309.5	3108.5	17.77	495
2230	448 2907.3	2706.4	2505.4	2304.5	2103.6	1902.5	1701.7	1500.8	1300.0	1099.2	3117.29	0.69 516
31	0898.2	0697.4	0496.7	0295.9	0095.2	*9894.3	*9693.6	*9492.9	*9292.3	*9091.7	16.81	536
32	447 8890.8	8690.3	8489.7	8289.1	8088.6	7887.8	7687.3	7486.9	7286.4	7085.7	16.33	556
33	6885.3	6684.9	6484.5	6284.1	6083.5	5883.2	5682.9	5482.6	5282.3	5081.8	15.85	577
34	4881.5	4681.3	4481.1	4280.9	4080.5	3880.3	3680.2	3480.1	3280.0	3079.7	15.37	597
35	2879.6	2679.5	2479.5	2279.5	2079.3	1879.3	1679.3	1479.4	1279.4	1079.3	14.89	618
36	0879.0	0679.5	0479.7	0279.8	0079.8	*9880.0	*9680.2	*9480.4	*9280.5	*9080.7	14.42	638
37	446 8881.0	8681.3	8481.6	8281.8	8082.1	7882.5	7682.9	7483.3	7283.6	7084.0	13.95	659
38	6884.4	6684.9	6485.4	6285.9	6086.3	5886.8	5687.4	5488.0	5288.4	5089.0	13.47	679
39	4889.6	4690.3	4491.0	4291.4	4092.2	3892.9	3693.6	3494.2	3295.0	3095.8	13.00	700
2240	446 2896.6	2697.4	2498.1	2298.9	2099.8	1900.7	1701.7	1502.4	1303.4	1104.3	3112.53	0.69 721
41	0905.3	0706.3	0507.2	0308.2	0109.3	*9910.4	*9711.5	*9512.4	*9313.5	*9114.7	12.06	742
42	445 8915.9	8717.0	8518.1	8319.3	8120.5	7921.8	7722.9	7524.2	7325.5	7126.8	11.59	762
43	6928.2	6729.3	6530.7	6332.1	6133.5	5935.0	5736.2	5537.7	5339.2	5140.7	11.13	783
44	4942.2	4743.6	4545.1	4346.7	4148.3	3949.9	3751.3	3553.0	3354.7	3156.4	10.56	803
45	2958.1	2759.6	2561.3	2363.1	2164.8	1966.4	1768.2	1570.1	1371.9	1173.8	10.19	824
46	0975.5	0777.4	0579.3	0381.2	0183.2	*9984.9	*9786.9	*9588.9	*9390.9	*9193.0	09.73	845
47	444 8995.0	8797.1	8599.2	8401.3	8203.4	8005.4	7807.5	7609.7	7411.9	7214.1	09.26	865
48	7016.2	6818.4	6620.7	6423.0	6225.3	6027.4	5829.7	5632.1	5434.4	5236.8	08.80	886
49	5038.8	4841.3	4643.7	4446.2	4248.6	4050.9	3853.5	3656.0	3458.5	3260.9	08.33	906
2250	444 3063.5	2866.1	2668.7	2471.3	2273.8	2076.5	1879.2	1681.9	1484.6	1287.1	3107.87	0.69 927

	206	205	204	203	202	201	200	199	198	197
1	20.6	20.5	20.4	20.3	20.2	20.1	20.0	19.9	19.8	19.7
2	41.2	41.0	40.8	40.6	40.4	40.2	40.0	39.8	39.6	39.4
3	61.8	61.5	61.2	60.9	60.6	60.3	60.0	59.7	59.4	59.1
4	82.4	82.0	81.6	81.2	80.8	80.4	80.0	79.6	79.2	78.8
5	103.0	102.5	102.0	101.5	101.0	100.5	100.0	99.5	99.0	98.5
6	123.6	123.0	122.4	121.8	121.2	120.6	120.0	119.4	118.8	118.2
7	144.2	143.5	142.8	142.1	141.4	140.7	140.0	139.3	138.6	137.9
8	164.8	164.0	163.2	162.4	161.6	160.8	160.0	159.2	158.4	157.6
9	185.4	184.5	183.6	182.7	181.8	180.9	180.0	179.1	178.2	177.3

	0	1	2	3	4	5	6	7	8	9	$(n-1) \times 10^2$	$\lambda(n-1) \times 10^2$
2250	444 3063.5	2866.1	2668.7	2471.3	2273.8	2076.5	1879.2	1681.9	1484.6	1287.1	3107.87	0.69 927
51	1089.9	0892.7	0695.5	0498.3	0300.9	0103.7	*9906.6	*9709.5	*9512.2	*9315.1	07.41	948
52	443 9118.0	8921.0	8724.0	8526.8	8329.8	8132.8	7935.8	7738.9	7541.7	7344.8	06.95	969
53	7147.9	6951.1	6754.2	6557.2	6360.4	6163.6	5966.8	5770.0	5573.1	5376.3	06.48	989
54	5179.6	4982.9	4786.2	4589.4	4392.7	4196.1	3999.5	3802.9	3606.1	3409.5	06.02	0.70 009
55	3213.0	3016.5	2820.0	2623.3	2426.8	2230.3	2033.9	1837.3	1640.9	1444.5	05.56	030
56	1248.1	1051.8	0855.3	0658.9	0462.6	0266.4	0070.1	*9873.7	*9677.4	*9481.2	05.10	051
57	442 9285.0	9088.8	8892.5	8696.3	8500.2	8304.1	8107.8	7911.8	7715.7	7519.7	04.65	072
58	7323.6	7127.4	6931.5	6735.5	6539.5	6343.5	6147.5	5951.6	5755.7	5559.8	04.19	093
59	5364.0	5168.0	4972.2	4776.4	4580.6	4384.8	4188.9	3993.2	3797.5	3601.8	03.74	113
2260	442 3406.1	3210.4	3014.6	2819.0	2623.4	2427.6	2232.0	2036.5	1840.9	1645.4	3103.28	0.70 134
61	1449.7	1254.2	1058.8	0863.3	0667.9	0472.3	0276.9	0081.5	*9886.1	*9690.8	02.83	155
62	441 9495.3	9300.0	9104.7	8909.4	8714.1	8518.7	8323.5	8128.3	7933.1	7737.9	02.38	176
63	7342.5	7147.4	6952.3	6757.2	6562.1	6366.8	6171.8	5976.7	5781.7	5586.5	01.92	196
64	5191.5	5006.6	4811.7	4616.7	4421.8	4227.0	4032.1	3837.1	3642.1	3447.1	01.47	217
65	3642.3	3447.5	3252.7	3057.9	2863.0	2668.3	2473.6	2278.9	2084.1	1889.4	01.02	238
66	1694.7	1500.1	1305.5	1110.7	0916.1	0721.6	0527.0	0332.5	0137.8	*9943.5	00.57	259
67	440 9748.9	9554.4	9360.0	9165.4	8971.0	8776.6	8582.2	8387.7	8193.4	7999.1	00.12	280
68	7804.8	7610.5	7416.0	7221.8	7027.6	6833.3	6639.0	6444.8	6250.6	6056.5	3099.68	301
69	5862.4	5668.2	5474.0	5279.9	5085.8	4891.8	4697.8	4503.6	4309.6	4115.6	99.23	322
2270	440 3921.7	3727.7	3533.6	3339.7	3145.8	2951.9	2757.9	2564.1	2370.3	2176.5	3098.78	0.70 342
71	1982.7	1788.7	1595.0	1401.2	1207.5	1013.8	*0819.9	0626.3	0432.6	0239.0	98.34	363
72	0045.4	*9851.6	*9658.0	*9464.5	*9270.9	*9077.2	8883.7	*8690.2	*8496.7	*8303.3	97.89	384
73	439 8109.6	7916.2	7722.8	7529.4	7336.0	7142.5	6949.1	6755.8	6562.5	6369.2	97.45	405
74	6175.8	5982.5	5789.3	5596.0	5402.8	5209.5	5016.3	4823.1	4630.0	4436.7	97.00	426
75	4243.6	4050.5	3857.4	3664.4	3471.1	3278.1	3085.1	2892.1	2699.2	2506.0	96.56	447
76	2313.1	2120.2	1927.3	1734.4	1541.3	1348.5	1155.7	0962.9	0769.9	0577.1	96.12	468
77	0384.3	0191.6	*9998.8	*9806.1	*9613.2	*9420.6	*9227.9	*9035.3	*8842.4	*8649.8	95.68	489
78	438 8457.2	8264.7	8072.1	7879.4	7686.8	7494.3	7301.8	7109.4	6916.7	6724.3	95.24	510
79	6331.8	6139.4	5947.0	5754.5	5562.1	5369.8	5177.5	4985.0	4792.7	4600.4	94.80	530
2280	438 4608.1	4415.9	4223.5	4031.3	3839.1	3646.9	3454.8	3262.4	3070.3	2878.2	3094.36	0.70 551
81	2686.1	2494.0	2301.8	2109.8	1917.7	1725.7	1533.6	1341.6	1149.6	0957.7	93.92	572
82	0765.8	0573.7	0381.8	0189.9	*9998.1	*9806.2	*9614.2	*9422.4	*9230.6	*9038.9	93.49	593
83	437 8847.1	8655.2	8463.5	8271.8	8080.1	7888.2	7696.6	7504.9	7313.3	7121.7	93.05	614
84	6930.0	6738.4	6546.8	6355.3	6163.8	5972.1	5780.6	5589.2	5397.7	5206.3	92.62	635
85	5014.7	4823.3	4631.9	4440.5	4249.2	4057.6	3866.3	3675.0	3483.7	3292.3	92.18	656
86	3101.0	2909.8	2718.6	2527.4	2336.0	2144.9	1953.7	1762.6	1571.5	1380.2	91.75	677
87	1189.1	0998.0	0807.0	0615.9	0424.7	0233.7	0042.8	*9851.8	*9660.9	*9469.9	91.32	698
88	436 9278.8	9087.9	8897.0	8706.0	8515.1	8324.3	8133.5	7942.7	7751.7	7561.0	90.88	719
89	7370.2	7179.5	6988.8	6797.9	6607.2	6416.5	6225.9	6035.1	5844.4	5653.8	90.45	740
2290	436 5463.3	5272.7	5082.0	4891.4	4700.9	4510.4	4319.9	4129.3	3938.8	3748.4	3090.02	0.70 761
91	3558.0	3367.6	3177.0	2986.7	2796.3	2606.0	2415.5	2225.2	2034.9	1844.6	89.59	782
92	1654.4	1464.0	1273.7	1083.5	0893.4	0703.2	0512.9	0322.7	0132.6	*9942.5	89.16	803
93	435 9752.2	9562.2	9372.1	9182.1	8992.1	8801.9	8611.9	8421.9	8232.0	8042.0	88.74	825
94	7851.9	7662.0	7472.2	7282.3	7092.4	6902.4	6712.6	6522.8	6333.0	6143.1	88.30	846
95	5953.3	5763.6	5573.8	5384.1	5194.3	5004.6	4814.9	4625.3	4435.7	4245.9	87.88	867
96	4056.6	3866.9	3677.2	3487.7	3297.9	3108.4	2919.0	2729.5	2539.8	2350.4	87.46	888
97	2161.0	1971.6	1782.2	1592.7	1403.3	1213.9	1024.6	0835.3	0645.8	0456.5	87.03	909
98	0267.3	0078.1	*9888.8	*9699.4	*9510.2	*9321.1	*9131.9	*8942.6	*8753.5	*8564.3	86.61	930
99	434 8375.3	8186.2	7996.9	7807.9	7618.0	7429.9	7240.9	7051.7	6862.7	6673.8	86.18	951
2300	434 6484.9	6296.0	6106.9	5918.0	5729.1	5540.3	5351.3	5162.5	4973.7	4784.9	3085.76	0.70 972

	197	196	195	194	193	192	191	190	189
1	19.7	19.6	19.5	19.4	19.3	19.2	19.1	19.0	18.9
2	39.4	39.2	39.0	38.8	38.6	38.4	38.2	38.0	37.8
3	59.1	58.8	58.5	58.2	57.9	57.6	57.3	57.0	56.7
4	78.8	78.4	78.0	77.6	77.2	76.8	76.4	76.0	75.6
5	98.5	98.0	97.5	97.0	96.5	96.0	95.5	95.0	94.5
6	118.2	117.6	117.0	116.4	115.8	115.2	114.6	114.0	113.4
7	137.9	137.2	136.5	135.8	135.1	134.4	133.7	133.0	132.3
8	157.6	156.8	156.0	155.2	154.4	153.6	152.8	152.0	151.2
9	177.3	176.4	175.5	174.6	173.7	172.8	171.9	171.0	170.1

	0	1	2	3	4	5	6	7	8	9	$(n-1) \times 10^7$	$2(n-1) \times 10^7$
2300	434 6484.9	6296.0	6106.9	5918.0	5729.1	5540.3	5351.3	5162.5	4973.7	4784.9	3085.76	0.70 972
01	4596.1	4407.2	4218.4	4029.7	3841.0	3652.2	3463.5	3274.9	3086.2	2897.6	85.34	994
02	2708.8	2520.2	2331.7	2143.1	1954.6	1765.9	1577.4	1388.9	1200.4	1012.0	34.92	0.71 015
03	0823.3	0634.9	0446.5	0258.1	0069.8	*9881.2	*9692.9	*9504.6	*9316.3	*9127.8	84.49	036
04	433 8939.5	8751.3	8563.0	8374.8	8186.4	7998.2	7810.0	7621.9	7433.7	7245.4	84.07	057
05	7057.3	6869.2	6681.1	6493.1	6304.9	6116.8	5928.8	5740.8	5552.7	5364.7	83.65	078
06	5176.7	4988.8	4800.9	4612.8	4424.9	4237.1	4049.2	3861.4	3673.4	3485.6	83.23	099
07	3297.8	3110.0	2922.3	2734.4	2546.7	2359.0	2171.3	1983.4	1795.8	1608.1	82.81	120
08	1420.5	1232.9	1045.1	0857.5	0670.0	0482.5	0294.7	0107.2	*9919.7	*9732.3	82.40	142
09	432 9544.8	9357.2	9169.8	8982.4	8795.0	8607.5	8420.0	8232.7	8045.4	7858.1	81.98	163
2310	432 7670.8	7483.3	7296.0	7108.8	6921.5	6734.1	6547.0	6359.8	6172.6	5985.5	3081.56	0.71 184
11	5798.1	5611.0	5423.9	5236.8	5049.8	4862.5	4675.5	4488.5	4301.5	4114.5	81.14	205
12	3927.3	3740.4	3553.4	3366.5	3179.4	2992.5	2805.6	2618.8	2431.9	2244.9	80.73	226
13	2058.1	1871.3	1684.5	1497.8	1310.8	1124.1	0937.4	0750.7	0563.8	0377.2	80.31	248
14	0190.5	0003.9	*9817.3	*9630.5	*9443.9	*9257.3	*9070.8	*8884.3	*8697.5	*8511.0	79.90	269
15	431 8324.6	8138.1	7951.6	7765.0	7578.6	7392.2	7205.8	7019.2	6832.9	6646.5	79.49	290
16	6460.2	6273.9	6087.4	5901.1	5714.9	5528.6	5342.4	5156.0	4969.8	4783.6	79.08	311
17	4597.4	4411.1	4225.0	4038.9	3852.8	3666.7	3480.4	3294.4	3108.3	2922.3	78.67	333
18	2736.3	2550.1	2364.2	2178.2	1992.3	1806.1	1620.2	1434.3	1248.5	1062.6	78.26	354
19	0876.6	0690.7	0504.9	0319.1	0133.4	*9947.4	*9761.7	*9575.9	*9390.2	*9204.3	77.85	375
2320	430 9018.6	8833.0	8647.3	8461.7	8275.9	8090.3	7904.7	7719.1	7533.6	7347.8	3077.44	0.71 397
21	7162.2	6976.8	6791.3	6605.8	6420.2	6234.7	6049.3	5863.9	5678.3	5492.9	77.03	418
22	5307.6	5122.2	4936.9	4751.4	4566.1	4380.8	4195.5	4010.1	3824.9	3639.6	76.63	439
23	3454.4	3269.2	3083.9	2898.7	2713.6	2528.5	2343.3	2158.1	1973.0	1787.9	76.22	461
24	1602.9	1417.9	1232.7	1047.7	862.7	677.7	492.6	307.6	122.7	*9937.8	75.82	482
25	429 9752.9	9567.9	9383.0	9198.2	9013.4	8828.5	8643.6	8458.8	8274.0	8089.3	75.41	503
26	7904.4	7719.7	7535.0	7350.3	7165.6	6980.8	6796.2	6611.5	6426.9	6242.4	75.01	525
27	6057.6	5873.1	5688.5	5504.0	5319.5	5134.8	4950.3	4765.9	4581.4	4396.8	74.60	546
28	4212.4	4028.0	3843.6	3659.3	3474.8	3290.4	3106.1	2921.8	2737.3	2553.1	74.20	567
29	2368.8	2184.6	2000.4	1816.0	1631.8	1447.6	1263.5	1079.3	0895.0	0710.9	73.79	589
2330	429 0526.8	0342.7	0158.7	*9974.4	*9790.4	*9606.4	9422.4	9238.2	9054.2	8870.3	3073.39	0.71 610
31	428 8686.4	8502.4	8318.3	8134.5	7950.6	7766.7	7582.9	7398.9	7215.1	7031.3	72.99	631
32	6847.5	6663.5	6479.8	6296.1	6112.4	5928.7	5744.8	5561.1	5377.5	5193.8	72.59	653
33	5010.2	4826.4	4642.8	4459.3	4275.7	4092.0	3908.4	3724.9	3541.4	3358.0	72.18	674
34	3174.3	2990.9	2807.4	2624.0	2440.6	2257.0	2073.7	1890.3	1707.0	1523.5	71.78	695
35	1340.2	1156.9	0973.6	0790.3	0606.9	0423.7	0240.5	0057.5	*9873.9	*9690.8	71.39	717
36	427 9507.6	9324.5	9141.4	8958.1	8775.0	8591.9	8408.9	8225.8	8042.6	7859.6	71.00	739
37	7676.6	7493.6	7310.7	7127.5	6944.6	6761.7	6578.8	6395.7	6212.9	6030.0	70.61	760
38	5847.2	5664.3	5481.4	5298.6	5115.8	4933.0	4750.1	4567.4	4384.7	4202.0	70.21	782
39	4019.3	3836.5	3653.8	3471.2	3288.6	3105.9	2923.2	2740.6	2558.1	2375.5	69.82	803
2340	427 2193.0	2010.3	1827.8	1645.3	1462.9	1280.2	1097.8	0915.4	0733.0	0550.6	3069.42	0.71 824
41	0368.1	0185.7	0003.4	*9821.0	*9638.6	*9456.3	*9274.0	*9091.7	*8909.5	*8727.1	69.03	846
42	426 8544.9	8362.7	8180.5	7998.3	7816.0	7633.9	7451.7	7269.6	7087.4	6905.3	68.64	868
43	6723.2	6541.2	6359.2	6177.0	5995.0	5813.0	5631.0	5449.1	5267.0	5085.1	68.24	889
44	4903.2	4721.3	4539.4	4357.4	4175.5	3993.7	3811.9	3629.9	3448.1	3266.4	67.85	910
45	3084.6	2902.9	2721.0	2539.3	2357.6	2175.9	1994.1	1812.5	1630.8	1449.2	67.46	932
46	1267.6	1085.9	0904.3	0722.8	0541.3	0359.7	0178.1	*9996.6	*9815.1	*9633.7	67.07	953
47	425 9452.0	9270.6	9089.2	8907.8	8726.4	8544.9	8363.6	8182.2	8000.9	7819.6	66.68	975
48	7638.2	7456.9	7275.6	7094.4	6913.0	6731.8	6550.6	6369.4	6188.3	6006.9	66.29	996
49	5825.8	5644.7	5463.6	5282.5	5101.3	4920.2	4739.2	4558.2	4377.0	4196.0	65.90	0.72 018
2350	425 4015.0	3834.1	3653.1	3472.0	3291.1	3110.2	2929.3	2748.3	2567.4	2386.6	3065.51	0.72 039

	189	188	187	186	185	184	183	182	181	180
1	18.9	18.8	18.7	18.6	18.5	18.4	18.3	18.2	18.1	18.0
2	37.8	37.6	37.4	37.2	37.0	36.8	36.6	36.4	36.2	36.0
3	56.7	56.4	56.1	55.8	55.5	55.2	54.9	54.6	54.3	54.0
4	75.6	75.2	74.8	74.4	74.0	73.6	73.2	72.8	72.4	72.0
5	94.5	94.0	93.5	93.0	92.5	92.0	91.5	91.0	90.5	90.0
6	113.4	112.8	112.2	111.6	111.0	110.4	109.8	109.2	108.6	108.0
7	132.3	131.6	130.9	130.2	129.5	128.8	128.1	127.4	126.7	126.0
8	151.2	150.4	149.6	148.8	148.0	147.2	146.4	145.6	144.8	144.0
9	170.1	169.2	168.3	167.4	166.5	165.6	164.7	163.8	162.9	162.0

	0	1	2	3	4	5	6	7	8	9	$(n-1) \times 10^7$	$\lambda(n-1) \times 10^7$
2350	425 4015.0	3834.1	3653.1	3472.0	3291.1	3110.2	2929.3	2748.3	2567.4	2386.6	3065.51	0.72 039
51	2205.8	2025.0	1844.0	1663.2	1482.5	1301.7	1121.0	0940.1	0759.4	0578.7	65.12	061
52	0398.0	0217.2	0036.6	*0856.0	*0675.3	*0494.8	*0314.0	*0133.4	*8952.9	*8772.4	64.74	083
53	424 8591.8	8411.2	8230.7	8050.2	7869.8	7689.2	7508.7	7328.3	7147.9	6967.6	64.35	104
54	6787.0	6606.7	6426.4	6246.0	6065.7	5885.3	5705.0	5524.8	5344.5	5164.1	63.97	126
55	4983.9	4803.7	4623.6	4443.4	4263.1	4082.9	3902.8	3722.7	3542.5	3362.4	63.58	147
56	3182.3	3002.3	2822.3	2642.1	2462.1	2282.1	2102.2	1922.2	1742.1	1562.2	63.19	169
57	1381.3	1202.4	1022.5	0842.5	0662.6	0482.8	0303.0	0123.0	0943.3	*9763.5	62.80	190
58	423 9385.7	9404.0	9224.1	9044.4	8864.7	8685.1	8505.2	8325.6	8146.0	7966.3	62.43	212
59	7786.7	7607.0	7427.4	7247.9	7068.3	6888.6	6709.1	6529.6	6350.2	6170.7	62.05	234
2360	423 5991.1	5811.7	5632.2	5452.8	5273.5	5093.9	4914.6	4735.2	4555.9	4376.4	3061.67	0.72 255
61	4197.1	4017.8	3838.6	3659.3	3479.9	3300.7	3121.5	2942.3	2763.1	2583.8	61.29	277
62	2404.7	2225.6	2046.4	1867.2	1688.1	1509.0	1330.0	1150.9	0971.7	0792.7	60.90	298
63	0613.8	0434.8	0255.8	0076.7	*0897.8	*0718.9	*0540.0	*0360.9	*0182.0	*0003.2	60.53	320
64	422 8824.3	8645.5	8466.5	8287.7	8109.0	7930.2	7751.3	7572.6	7393.8	7215.1	60.15	342
65	7036.4	6857.6	6678.9	6500.3	6321.7	6142.9	5964.3	5785.7	5607.1	5428.6	59.77	364
66	5249.9	5071.4	4892.9	4714.4	4535.9	4357.3	4178.8	4000.4	3822.0	3643.4	59.39	385
67	3465.0	3286.6	3108.3	2929.9	2751.4	2573.1	2394.8	2216.6	2038.1	1859.9	59.01	407
68	1681.6	1503.4	1325.2	1146.8	0968.7	0790.5	0612.4	0434.2	0256.0	0077.9	58.64	429
69	421 9899.8	9721.7	9543.7	9365.4	9187.4	9009.4	8831.4	8653.3	8475.3	8297.3	58.26	450
2370	421 8119.4	7941.5	7763.4	7585.5	7407.7	7229.8	7051.8	6873.9	6696.1	6518.3	3057.88	0.72 472
71	6340.6	6162.6	5984.9	5807.1	5629.4	5451.5	5273.8	5096.1	4918.5	4740.8	57.51	494
72	4563.0	4385.4	4207.8	4030.2	3852.6	3674.9	3497.4	3319.8	3142.3	2964.6	57.13	515
73	2787.2	2609.7	2432.2	2254.8	2077.2	1899.8	1722.4	1545.0	1367.7	1190.1	56.76	537
74	1012.8	0835.5	0658.2	0480.7	0303.4	0126.2	*0948.9	*0771.7	*0594.3	*0417.1	56.38	558
75	420 9239.9	9062.8	8885.6	8708.3	8531.2	8354.0	8177.0	7999.7	7822.6	7645.6	56.01	580
76	7468.5	7291.5	7114.3	6937.3	6760.4	6583.4	6406.3	6229.4	6052.4	5875.5	55.64	602
77	5698.7	5521.6	5344.7	5167.9	4991.1	4814.1	4637.3	4460.5	4283.7	4107.0	55.27	624
78	3930.1	3753.4	3576.6	3400.0	3223.3	3046.4	2869.8	2693.2	2516.5	2339.8	54.90	646
79	2163.2	1986.6	1810.0	1633.5	1456.8	1280.3	1103.8	0927.3	0750.6	0574.2	54.53	667
2380	420 0397.7	0221.3	0044.9	*9868.3	*9691.9	*9515.6	*9339.2	*9162.7	*8986.4	*8810.1	3054.16	0.72 689
81	419 8633.8	8457.5	8281.1	8104.8	7928.6	7752.4	7576.2	7399.8	7223.6	7047.5	53.80	711
82	6871.3	6695.0	6518.9	6342.8	6166.7	5990.6	5814.4	5638.4	5462.3	5286.3	53.43	733
83	5110.2	4934.2	4758.2	4582.3	4406.3	4230.2	4054.3	3878.4	3702.3	3526.7	53.07	755
84	3350.7	3174.8	2999.0	2823.4	2647.4	2471.5	2295.7	2119.9	1944.2	1768.3	52.70	776
85	1592.6	1416.9	1241.3	1065.6	0890.8	0714.2	0538.5	0362.9	0187.2	0011.6	52.33	797
86	418 9836.1	9660.5	9485.0	9309.3	9133.8	8958.3	8782.9	8607.2	8431.8	8256.4	51.97	819
87	8081.0	7905.6	7730.0	7554.7	7379.3	7204.0	7028.7	6853.2	6677.9	6502.6	51.60	841
88	6327.4	6151.9	5976.7	5801.5	5626.3	5451.1	5275.7	5100.6	4925.4	4750.3	51.24	863
89	4575.0	4399.9	4224.8	4049.8	3874.7	3699.5	3524.5	3349.5	3174.5	2999.3	50.87	885
2390	418 2824.3	2649.4	2474.5	2299.5	2124.4	1949.6	1774.7	1599.8	1424.8	1249.9	3050.51	0.72 907
91	1075.1	0900.3	0725.5	0550.6	0375.8	0201.1	0026.3	*9851.4	*9676.7	*9502.0	50.15	929
92	417 9327.4	9152.7	8977.9	8803.3	8628.6	8454.0	8279.4	8104.7	7930.0	7755.6	49.79	951
93	7581.1	7406.4	7231.9	7057.4	6882.9	6708.5	6533.9	6359.4	6185.0	6010.6	49.42	973
94	5836.2	5661.7	5487.3	5313.0	5138.7	4964.2	4789.9	4615.6	4441.3	4267.1	49.06	994
95	4092.7	3918.5	3744.2	3570.0	3395.7	3221.5	3047.4	2873.2	2699.1	2524.8	48.70	0.73 016
96	2350.7	2176.7	2002.6	1828.4	1654.4	1480.3	1306.3	1132.3	0958.2	0784.2	48.35	038
97	0610.3	0436.3	0262.4	0088.3	*9914.5	*9740.6	*9566.7	*9392.7	*9218.9	*9045.1	47.99	060
98	416 8871.3	8697.5	8523.5	8349.4	8176.0	8002.3	7828.4	7654.7	7481.0	7307.3	47.63	082
99	7133.7	6959.9	6786.2	6612.6	6439.0	6265.3	6091.7	5918.1	5744.6	5571.1	47.27	104
2400	416 5397.4	5223.9	5050.4	4876.9	4703.3	4529.9	4356.4	4183.0	4009.6	3836.1	3046.91	0.73 126

	181	180	179	178	177	176	175	174	173
1	18.1	18.0	17.9	17.8	17.7	17.6	17.5	17.4	17.3
2	36.2	36.0	35.8	35.6	35.4	35.2	35.0	34.8	34.6
3	54.3	54.0	53.7	53.4	53.1	52.8	52.5	52.2	51.9
4	72.4	72.0	71.6	71.2	70.8	70.4	70.0	69.6	69.2
5	90.5	90.0	89.5	89.0	88.5	88.0	87.5	87.0	86.5
6	108.6	108.0	107.4	106.8	106.2	105.6	105.0	104.4	103.8
7	126.7	126.0	125.3	124.6	123.9	123.2	122.5	121.8	121.1
8	144.8	144.0	143.2	142.4	141.6	140.8	140.5	139.2	138.4
9	162.9	162.0	161.1	160.2	159.3	158.4	157.5	156.6	155.7

	0	1	2	3	4	5	6	7	8	9	$(n-1) \times 10^7$	$\lambda(n-1) \times 10^7$
2400	416 5397.4	5223.9	5050.4	4876.9	4703.3	4529.9	4356.4	4183.0	4009.6	3836.1	3046.91	0.73 126
01	3662.7	3489.4	3316.0	3142.5	2969.2	2795.9	2622.6	2449.4	2275.9	2102.7	3046.56	0.73 148
02	1929.5	1756.3	1583.1	1409.7	1236.5	1063.4	0890.3	0717.0	0544.3	0370.8	46.20	170
03	0197.7	0024.6	*9851.4	*9678.4	*9505.3	*9332.3	*9159.2	*8986.2	*8813.2	*8640.3	45.85	192
04	415 8467.3	8294.2	8121.3	7948.4	7775.6	7602.5	7429.7	7256.8	7084.0	6911.2	45.49	214
05	6738.2	6565.5	6392.7	6220.0	6047.1	5874.3	5701.6	5528.9	5356.2	5183.4	45.14	236
06	5010.8	4838.1	4665.5	4492.8	4320.2	4147.6	3975.0	3802.5	3629.8	3457.2	44.79	258
07	3284.7	3112.2	2939.8	2767.1	2594.7	2422.3	2249.8	2077.3	1904.9	1732.5	44.44	280
08	1560.1	1387.8	1215.3	1043.0	870.7	698.4	525.9	353.7	181.4	0009.2	44.08	302
09	414 9837.0	9664.6	9492.4	9320.2	9148.0	8975.9	8803.6	8631.5	8459.4	8287.3	43.73	323
2410	414 8115.0	7943.0	7770.9	7598.9	7426.9	7254.7	7082.7	6910.7	6738.8	6566.7	3043.38	0.73 345
11	6394.7	6222.8	6050.9	5879.0	5707.0	5535.1	5363.2	5191.4	5019.4	4847.6	43.03	367
12	4675.8	4504.1	4332.3	4160.4	3988.6	3816.9	3645.2	3473.4	3301.7	3130.0	42.68	389
13	2958.4	2786.7	2614.9	2443.3	2271.7	2100.2	1928.6	1756.9	1585.3	1413.8	42.33	411
14	1242.3	1070.7	0899.2	0727.7	0556.3	0384.8	0213.2	0041.8	*9870.4	*9699.1	41.08	433
15	413 9527.5	9356.2	9184.8	9013.5	8842.2	8670.8	8499.5	8328.2	8157.0	7985.5	41.63	455
16	7814.3	7643.1	7471.9	7300.7	7129.4	6958.3	6787.1	6616.0	6444.7	6273.6	41.28	477
17	6102.5	5931.5	5760.4	5589.2	5418.2	5247.2	5076.2	4905.0	4734.1	4563.1	40.94	500
18	4392.2	4221.2	4050.2	3879.3	3708.4	3537.5	3366.5	3195.7	3024.8	2854.0	40.60	522
19	2683.2	2512.3	2341.5	2170.7	2000.0	1829.1	1658.4	1487.7	1317.0	1146.3	40.25	544
2420	413 0975.5	0804.9	0634.2	0463.6	0292.9	0122.3	*9951.7	*9781.1	*9610.6	*9439.9	3039.90	0.73 566
21	412 9269.4	9098.9	8928.4	8757.7	8587.3	8416.8	8246.4	8076.0	7905.4	7735.0	39.56	588
22	7564.6	7394.2	7223.9	7053.4	6883.1	6712.8	6542.5	6372.1	6201.8	6031.6	39.22	610
23	5861.3	5691.1	5520.7	5350.5	5180.4	5010.2	4839.9	4669.7	4499.6	4329.5	38.87	632
24	4159.4	3989.2	3819.1	3649.1	3479.0	3308.8	3138.8	2968.8	2798.8	2628.9	38.53	654
25	2458.7	2288.8	2118.9	1949.0	1778.9	1609.0	1439.1	1269.3	1099.4	0929.5	38.19	676
26	0759.6	0589.8	0420.1	0250.1	0080.4	*9910.6	*9740.9	*9571.2	*9401.3	*9231.6	37.85	698
27	411 9061.9	8892.3	8722.6	8552.8	8383.2	8213.6	8044.0	7874.3	7704.7	7535.2	37.51	720
28	7365.6	7196.1	7026.4	6856.9	6687.5	6518.0	6348.4	6178.9	6009.5	5840.1	37.17	742
29	5670.5	5501.2	5331.8	5162.4	4993.1	4823.6	4654.3	4485.0	4315.7	4146.3	36.83	765
2430	411 3977.0	3807.8	3638.6	3469.3	3300.0	3130.8	2961.6	2792.5	2623.1	2454.0	3036.49	0.73 787
31	2284.9	2115.8	1946.7	1777.5	1608.4	1439.4	1270.3	1101.1	0932.1	0763.1	36.15	809
32	0594.2	0425.2	0256.1	0087.2	*9918.2	*9749.3	*9580.4	*9411.4	*9242.5	*9073.7	35.81	831
33	410 8004.8	8735.8	8567.0	8398.2	8229.4	8060.7	7891.8	7723.0	7554.3	7385.6	35.47	853
34	7216.7	7048.0	6879.4	6710.7	6542.0	6373.3	6204.6	6036.0	5867.7	5698.9	35.13	875
35	5530.2	5361.6	5193.1	5024.5	4855.9	4687.4	4518.9	4350.4	4181.8	4013.4	34.80	897
36	3845.0	3676.5	3508.0	3339.6	3171.2	3002.9	2834.5	2666.1	2497.7	2329.4	34.46	919
37	2161.2	1992.9	1824.5	1656.2	1488.0	1319.8	1151.4	0983.2	0815.0	0646.9	34.12	942
38	0478.7	0310.4	0142.3	*9974.2	*9806.1	*9637.9	*9469.8	*9301.8	*9133.7	*8965.7	33.79	964
39	409 8797.5	8629.5	8461.6	8293.6	8125.5	7957.5	7789.6	7621.7	7453.8	7285.7	33.45	986
2440	409 7117.9	6950.0	6782.2	6614.2	6446.4	6278.6	6110.8	5943.0	5775.1	5607.3	3033.13	0.74 008
41	5439.6	5271.9	5104.0	4936.3	4768.6	4601.0	4433.3	4265.5	4097.9	3930.3	32.80	031
42	3762.7	3594.9	3427.4	3259.8	3092.3	2924.7	2757.1	2589.6	2422.1	2254.6	32.46	053
43	2087.0	1919.5	1752.1	1584.7	1417.3	1249.8	1082.4	0915.0	0747.6	0580.1	32.13	075
44	0412.8	0245.5	0078.2	*9910.9	*9743.5	*9576.2	*9409.0	*9241.8	*9074.4	*8907.2	31.79	097
45	408 8740.0	8572.8	8405.7	8238.4	8071.2	7904.1	7737.0	7569.9	7402.7	7235.6	31.46	119
46	7068.6	6901.5	6734.3	6567.3	6400.3	6233.4	6066.2	5899.3	5732.3	5565.4	31.13	141
47	5398.5	5231.4	5064.6	4897.7	4730.8	4563.8	4397.0	4230.2	4063.4	3896.6	30.80	164
48	3729.6	3562.9	3396.1	3229.4	3062.5	2895.8	2729.1	2562.4	2395.8	2228.9	30.47	186
49	2062.3	1895.7	1729.1	1562.3	1395.7	1229.1	1062.6	0896.0	0729.3	0562.8	30.14	208
2450	408 0396.3	0229.8	0063.2	*9896.7	*9730.3	*9563.8	9397.4	9230.9	9064.5	8898.1	3029.81	0.74 230

	174	173	172	171	170	169	168	167	166
1	17.4	17.3	17.2	17.1	17.0	16.9	16.8	16.7	16.6
2	34.8	34.6	34.4	34.2	34.0	33.8	33.6	33.4	33.2
3	52.2	51.9	51.6	51.3	51.0	50.7	50.4	50.1	49.8
4	69.6	69.2	68.8	68.4	68.0	67.6	67.2	66.8	66.4
5	87.0	86.5	86.0	85.5	85.0	84.5	84.0	83.5	83.0
6	104.4	103.8	103.2	102.6	102.0	101.4	100.8	100.2	99.6
7	121.8	121.1	120.4	119.7	119.0	118.3	117.6	116.9	116.2
8	139.2	138.4	137.6	136.8	136.0	135.2	134.4	133.6	132.8
9	156.6	155.7	154.8	153.9	153.0	152.1	151.2	150.3	149.4

	0	1	2	3	4	5	6	7	8	9	$(n-1) \times 10^7$	$2(n-1) \times 10^7$
2450	408 0396.3	0229.8	0063.2	*9896.7	*9730.3	*9563.8	*9397.4	*9230.9	*9064.5	*8898.1	3029.81	0.74 230
51	407 8731.7	8565.2	8398.8	8232.5	8066.2	7899.9	7733.5	7567.2	7400.9	7234.7	29.48	253
52	7068.3	6902.1	6735.9	6569.7	6403.5	6237.2	6071.0	5904.9	5738.8	5572.6	29.16	275
53	5406.4	5240.3	5074.2	4908.2	4742.0	4575.9	4409.9	4243.9	4077.8	3911.8	28.83	297
54	3745.8	3579.9	3413.9	3247.9	3082.0	2916.1	2750.2	2584.2	2418.3	2252.5	28.51	320
55	2086.6	1920.8	1754.9	1589.1	1423.3	1257.5	1091.6	925.9	760.2	594.5	28.18	342
56	0428.8	0262.9	0097.3	*9931.6	*9766.0	*9600.2	*9434.6	*9269.0	*9103.4	*8937.8	27.85	364
57	406 8772.1	8606.6	8441.1	8275.5	8109.9	7944.4	7778.9	7613.4	7448.0	7282.4	27.53	386
58	7117.0	6951.5	6786.2	6620.6	6455.3	6289.9	6124.6	5959.2	5793.8	5628.5	27.20	409
59	5463.2	5297.9	5132.5	4967.2	4802.0	4636.8	4471.6	4306.2	4141.0	3975.9	26.88	431
2460	406 3810.7	3645.4	3480.3	3315.2	3150.1	2984.9	2819.8	2654.7	2489.7	2324.6	3026.55	0.74 453
61	2159.4	1994.4	1829.4	1664.5	1499.3	1334.4	1169.4	1004.5	839.6	674.6	26.23	476
62	0509.7	0344.8	0179.9	0014.9	*9850.1	*9685.3	*9520.5	*9355.7	*9190.9	*9026.0	25.91	498
63	405 8861.2	8696.5	8531.6	8366.9	8202.2	8037.5	7872.8	7708.0	7543.4	7378.8	25.59	520
64	7214.1	7049.4	6884.8	6720.2	6555.6	6391.1	6226.4	6061.9	5897.5	5732.9	25.27	543
65	5568.2	5403.7	5239.3	5074.8	4910.4	4745.8	4581.4	4417.0	4252.6	4088.1	24.95	565
66	3923.9	3759.6	3595.3	3431.0	3266.5	3102.2	2938.0	2773.7	2609.3	2445.1	24.63	587
67	2280.7	2117.1	1952.3	1788.0	1623.8	1459.6	1295.5	1131.2	967.1	803.0	24.31	610
68	0638.9	0474.9	0310.6	0146.6	*9982.6	*9818.6	*9654.4	*9490.4	*9326.4	*9162.5	23.94	632
69	404 8998.5	8834.4	8670.5	8506.6	8342.7	8178.6	8014.7	7850.9	7687.0	7523.1	23.67	654
2470	404 7359.2	7195.4	7031.6	6867.9	6703.9	6540.2	6376.4	6212.7	6048.8	5885.1	3023.35	0.74 677
71	5721.5	5557.8	5394.1	5230.3	5066.7	4903.1	4739.5	4575.7	4412.1	4248.6	23.03	699
72	4085.0	3921.5	3757.8	3594.3	3430.8	3267.3	3103.6	2940.2	2776.7	2613.3	22.72	722
73	2449.9	2286.3	2122.9	1959.5	1796.2	1632.6	1469.3	1306.0	1142.7	979.2	22.40	744
74	0815.9	0652.6	0489.4	0326.1	0162.7	*9999.5	*9836.3	*9673.1	*9509.7	*9346.6	22.09	767
75	403 9183.4	9020.3	8857.1	8693.9	8530.8	8367.7	8204.6	8041.5	7878.3	7715.3	21.77	789
76	7552.3	7389.2	7226.1	7063.1	6900.1	6737.2	6574.1	6411.1	6248.2	6085.3	21.46	811
77	5922.4	5759.4	5596.5	5433.6	5270.8	5107.8	4945.0	4782.2	4619.4	4456.6	21.14	834
78	4293.7	4131.0	3968.2	3805.5	3642.6	3479.9	3317.2	3154.6	2991.9	2829.1	20.83	856
79	2666.5	2503.9	2341.3	2178.5	2015.9	1853.4	1690.8	1528.3	1365.6	1203.1	20.51	878
2480	403 1040.6	0878.1	0715.5	0553.0	0390.5	0228.1	0065.7	*9903.1	*9740.7	*9578.3	3020.20	0.74 901
81	402 9416.0	9253.5	9091.1	8928.8	8766.5	8604.0	8441.7	8279.5	8117.2	7954.9	19.89	923
82	7792.5	7630.3	7468.1	7305.9	7143.6	6981.4	6819.2	6657.1	6495.0	6332.7	19.58	946
83	6170.6	6008.5	5846.4	5684.2	5522.1	5360.1	5198.0	5036.0	4873.9	4711.9	19.27	968
84	4549.9	4387.9	4225.8	4063.9	3901.9	3740.0	3578.1	3416.1	3254.2	3092.3	18.96	991
85	2930.5	2768.5	2606.7	2444.9	2283.1	2121.1	1959.4	1797.6	1635.9	1474.1	18.65	0.75 013
86	1312.3	1150.6	988.9	827.2	665.4	503.7	342.1	180.5	0018.8	*9857.1	18.34	036
87	401 9695.5	9533.9	9372.4	9210.7	9049.1	8887.6	8726.1	8564.6	8402.9	8241.5	18.03	058
88	8080.0	7918.6	7757.0	7595.6	7434.2	7272.8	7111.4	6949.9	6788.5	6627.2	17.72	081
89	6465.9	6304.4	6143.1	5981.8	5820.5	5659.1	5497.8	5336.6	5175.4	5014.2	17.41	103
2490	401 4852.8	4691.6	4530.5	4369.3	4208.0	4046.9	3885.7	3724.6	3563.5	3402.3	3017.10	0.75 126
91	3241.2	3080.2	2919.1	2758.0	2596.9	2435.9	2274.9	2114.0	1952.8	1791.9	16.79	148
92	1631.0	1470.0	1309.0	1148.1	987.2	826.3	665.4	504.4	343.6	182.8	16.49	171
93	0022.0	*9861.0	*9700.2	*9539.4	*9378.7	*9217.8	*9057.1	*8896.3	*8735.6	*8574.9	16.18	193
94	400 8414.1	8253.4	8092.8	7932.1	7771.3	7610.7	7450.1	7289.5	7129.0	6968.4	15.88	216
95	6807.7	6647.1	6486.6	6325.9	6165.5	6005.0	5844.5	5684.0	5523.4	5363.0	15.57	238
96	5202.5	5042.1	4881.6	4721.2	4560.8	4400.5	4240.0	4079.6	3919.3	3759.0	15.27	261
97	3598.7	3438.3	3278.0	3117.7	2957.5	2797.1	2636.9	2476.7	2316.5	2156.3	14.96	284
98	1996.0	1835.8	1675.7	1515.6	1355.3	1195.2	1035.1	875.0	715.0	554.7	14.66	306
99	0394.7	0234.7	0074.7	*9914.4	*9754.5	*9594.6	*9434.6	*9274.6	*9114.5	*8954.6	14.35	329
2500	399 8794.7	8634.8	8474.8	8314.9	8155.0	7995.2	7835.2	7675.4	7515.6	7355.8	3014.05	0.75 351

	166	165	164	163	162	161	160
1	16.6	16.5	16.4	16.3	16.2	16.1	16.0
2	33.2	33.0	32.8	32.6	32.4	32.2	32.0
3	49.8	49.5	49.2	48.9	48.6	48.3	48.0
4	66.4	66.0	65.6	65.2	64.8	64.4	64.0
5	83.0	82.5	82.0	81.5	81.0	80.5	80.0
6	99.6	99.0	98.4	97.8	97.2	96.6	96.0
7	116.2	115.5	114.8	114.1	113.4	112.7	112.0
8	132.8	132.0	131.2	130.4	129.6	128.8	128.0
9	149.4	148.5	147.6	146.7	145.8	144.9	144.0

	0	1	2	3	4	5	6	7	8	9	$(n-1) \times 10^7$	$\lambda_{vac} = \lambda^*$
2500	399 8794.7	8634.8	8474.8	8314.9	8155.0	7995.2	7835.2	7675.4	7515.6	7355.8	3014.05	0.75 351
01	7196.0	7036.1	6876.3	6716.6	6556.8	6397.0	6237.3	6077.6	5917.9	5758.2	13.75	374
02	5598.4	5438.8	5279.1	5119.5	4959.8	4800.2	4640.6	4481.0	4321.5	4161.8	13.44	396
03	4002.2	3842.7	3683.2	3523.6	3364.1	3204.6	3045.2	2885.7	2726.2	2566.7	13.14	419
04	2407.3	2247.9	2088.4	1929.1	1769.7	1610.4	1450.9	1291.6	1132.3	0973.0	12.83	441
05	0813.7	0654.3	0495.1	0335.8	0176.6	0017.2	*9858.0	*9698.9	*9539.7	*9380.5	12.53	464
06	398 9221.2	9062.1	8903.0	8743.9	8584.6	8425.5	8266.5	8107.4	7948.4	7789.2	12.23	486
07	7630.2	7471.2	7312.2	7153.0	6994.1	6835.1	6676.2	6517.1	6358.2	6199.2	11.93	509
08	6040.4	5881.5	5722.5	5563.6	5404.8	5245.9	5087.0	4928.2	4769.4	4610.6	11.64	532
09	4451.8	4292.9	4134.2	3975.4	3816.7	3657.9	3499.2	3340.5	3181.8	3023.0	11.34	554
2510	398 2864.4	2705.8	2547.2	2388.6	2229.8	2071.2	1912.7	1754.1	1595.4	1436.9	3011.04	0.75 577
11	1278.4	1119.9	0961.4	0802.8	0644.3	0485.9	0327.4	0168.8	0010.4	*9852.0	10.74	600
12	397 9693.6	9535.3	9376.8	9218.4	9060.1	8901.7	8743.3	8585.0	8426.7	8268.4	10.45	622
13	8110.0	7951.8	7793.5	7635.3	7477.1	7318.7	7160.5	7002.4	6844.2	6685.9	10.15	645
14	6527.8	6369.7	6211.5	6053.3	5895.2	5737.1	5579.1	5421.0	5262.8	5104.8	09.86	668
15	4946.8	4788.8	4630.7	4472.7	4314.7	4156.8	3998.8	3840.8	3682.9	3525.0	09.56	690
16	3367.1	3209.1	3051.2	2893.4	2735.5	2577.6	2419.8	2262.0	2104.2	1946.4	09.26	713
17	1788.5	1630.8	1473.0	1315.3	1157.4	0999.7	0842.1	0684.4	0526.7	0368.9	08.97	736
18	0211.3	0053.7	*9896.1	*9738.3	*9580.7	*9423.2	*9265.6	*9108.1	*8950.4	*8792.9	08.67	758
19	306 8635.3	8477.9	8320.2	8162.7	8005.3	7847.8	7690.3	7532.8	7375.4	7218.0	08.38	781
2520	396 7060.7	6903.1	6745.8	6588.4	6431.1	6273.6	6116.3	5959.0	5801.7	5644.5	3008.08	0.75 804
21	5487.0	5329.8	5172.6	5015.4	4858.0	4700.8	4543.6	4386.4	4229.3	4072.0	07.79	826
22	3914.8	3757.7	3600.6	3443.4	3286.3	3129.2	2972.2	2815.0	2657.9	2500.9	07.50	849
23	2343.9	2186.9	2029.8	1872.8	1715.8	1558.9	1401.8	1244.9	1088.0	0931.1	07.20	872
24	0774.2	0617.2	0460.3	0303.5	0146.6	*9989.6	*9832.8	*9676.0	*9519.3	*9362.3	06.91	894
25	395 9205.6	9048.8	8892.1	8735.4	8578.5	8421.8	8265.1	8108.4	7951.6	7795.0	06.62	917
26	7638.3	7481.7	7324.9	7168.4	7011.8	6855.2	6698.6	6541.9	6385.4	6228.9	06.33	940
27	6072.4	5915.7	5759.2	5602.7	5446.3	5289.8	5133.2	4976.8	4820.4	4664.0	06.04	963
28	4507.5	4351.1	4194.7	4038.4	3882.0	3725.5	3569.2	3412.9	3256.6	3100.2	05.75	985
29	2943.9	2787.7	2631.5	2475.1	2318.9	2162.7	2006.5	1850.3	1694.0	1537.8	05.46	0.76 008
2530	395 1381.7	1225.5	1069.3	0913.2	0757.1	0601.0	0444.8	0288.7	0132.7	*9976.7	3005.17	0.76 031
31	394 9820.6	9664.5	9508.5	9352.5	9196.5	9040.4	8884.5	8728.6	8572.6	8416.7	04.88	054
32	8260.7	8104.8	7948.9	7793.1	7637.1	7481.2	7325.4	7169.6	7013.8	6857.9	04.59	076
33	6702.1	6546.3	6390.6	6234.7	6079.0	5923.3	5767.6	5611.7	5456.1	5300.4	04.31	099
34	5144.8	4989.1	4833.3	4677.7	4522.1	4366.6	4210.8	4055.3	3899.7	3744.2	04.02	122
35	3588.5	3433.0	3277.5	3122.0	2966.5	2810.9	2655.4	2500.0	2344.6	2189.0	03.73	145
36	2033.6	1878.2	1722.8	1567.5	1412.0	1256.6	1101.3	0946.0	0790.5	0635.2	03.44	167
37	0479.9	0324.7	0169.3	0014.0	*9858.8	*9703.6	*9548.4	*9393.0	*9237.8	*9082.7	03.16	190
38	393 8927.5	8772.2	8617.1	8462.0	8306.8	8151.6	7996.5	7841.4	7686.4	7531.3	02.87	213
39	7376.1	7221.1	7066.1	6911.1	6756.0	6601.0	6446.0	6291.1	6136.1	5981.1	02.59	236
2540	393 5826.1	5671.2	5516.3	5361.4	5206.6	5051.6	4896.8	4741.9	4587.0	4432.2	3002.30	0.76 258
41	4277.4	4122.6	3967.7	3812.9	3658.2	3503.4	3348.6	3193.9	3039.2	2884.5	02.02	281
42	2729.8	2575.0	2420.4	2265.7	2111.1	1956.3	1801.7	1647.2	1492.6	1337.9	01.74	304
43	1183.3	1028.8	0874.3	0719.8	0565.1	0410.6	0256.1	0101.7	*9947.1	*9792.6	01.45	327
44	392 9638.2	9483.8	9329.2	9174.8	9020.5	8866.1	8711.7	8557.2	8402.9	8248.6	01.17	350
45	8094.3	7939.9	7785.6	7631.3	7477.0	7322.6	7168.4	7014.2	6860.0	6705.8	00.98	373
46	6551.4	6397.3	6243.1	6089.0	5934.7	5780.6	5626.4	5472.3	5318.3	5164.0	00.70	396
47	5010.0	4855.9	4701.9	4547.7	4393.7	4239.0	4085.7	3931.6	3777.6	3623.6	00.42	419
48	3469.7	3315.8	3161.7	3007.8	2853.9	2700.0	2546.0	2392.1	2238.3	2084.4	00.13	442
49	1930.5	1776.7	1622.9	1469.1	1315.3	1161.4	1007.6	0853.9	0700.2	0546.3	2999.85	0.76 488
2550	392 0392.6	0238.9	0085.2	*9931.4	*9777.8	*9624.1	*9470.5	*9316.9	*9163.1	*9009.5	2999.48	0.76 488

	160	159	158	157	156	155	154
1	16.0	15.9	15.8	15.7	15.6	15.5	15.4
2	32.0	31.8	31.6	31.4	31.2	31.0	30.8
3	48.0	47.7	47.4	47.1	46.8	46.5	46.2
4	64.0	63.6	63.2	62.8	62.4	62.0	61.6
5	80.0	79.5	79.0	78.5	78.0	77.5	77.0
6	96.0	95.4	94.8	94.2	93.6	93.0	92.4
7	112.0	111.3	110.6	109.9	109.2	108.5	107.8
8	128.0	127.2	126.4	125.6	124.8	124.0	123.2
9	144.0	143.1	142.2	141.3	140.4	139.5	138.6

	0	1	2	3	4	5	6	7	8	9	$(n-1) \times 10^7$	$\lambda(n-1) \times 10^7$
2550	392 0392.6	0238.9	0085.2	*0931.4	*0777.8	*0624.1	*0470.5	*0316.9	*0163.1	*0009.5	2999.48	0.76 488
51	391 8856.0	8702.4	8548.7	8395.1	8241.6	8088.1	7934.6	7780.9	7627.4	7474.0	99.20	510
52	7320.5	7166.9	7013.5	6860.1	6706.6	6553.1	6399.7	6246.3	6093.0	5939.6	98.92	533
53	5786.1	5632.8	5479.5	5326.2	5172.7	5019.4	4866.2	4712.9	4559.7	4406.3	98.65	556
54	4253.1	4099.9	3946.7	3793.3	3640.2	3487.0	3333.8	3180.7	3027.4	2874.3	98.37	578
55	2721.2	2568.1	2414.9	2261.8	2108.8	1955.8	1802.6	1649.6	1496.6	1343.6	98.09	601
56	1190.6	1037.5	0884.5	0731.6	0578.6	0425.6	0272.6	0119.7	*0966.8	*0813.8	97.81	624
57	390 0661.0	9508.1	9355.3	9202.5	9049.5	8896.7	8743.9	8591.1	8438.2	8285.5	97.53	647
58	8132.7	7980.0	7827.1	7674.4	7521.7	7369.0	7216.4	7063.6	6910.9	6758.3	97.26	670
59	6605.7	6452.9	6300.3	6147.7	5995.1	5842.4	5689.9	5537.2	5384.8	5232.3	96.98	693
2560	390 5079.6	4927.2	4774.7	4622.2	4469.6	4317.2	4164.7	4012.3	3859.9	3707.6	2996.70	0.76 716
61	3555.0	3402.6	3250.2	3097.7	2945.4	2793.1	2640.8	2488.5	2336.0	2183.8	96.43	739
62	2031.5	1879.2	1726.8	1574.6	1422.4	1270.2	1117.8	0965.7	0813.5	0661.3	96.15	761
63	0509.2	0356.9	0204.8	0052.7	*0900.6	*0748.4	*0596.3	*0444.2	*0292.2	*0140.0	95.88	784
64	389 8987.9	8835.9	8683.9	8531.9	8379.8	8227.8	8075.9	7923.9	7771.8	7619.9	95.60	807
65	7468.0	7316.1	7164.1	7012.2	6860.3	6708.5	6556.7	6404.8	6252.9	6101.1	95.33	830
66	5949.3	5797.3	5645.6	5493.8	5342.1	5190.2	5038.5	4886.8	4735.1	4583.4	95.06	853
67	4431.6	4279.9	4128.3	3976.6	3824.8	3673.2	3521.6	3370.0	3218.5	3066.7	94.79	876
68	2915.2	2763.7	2612.1	2460.5	2308.9	2157.5	2006.0	1854.3	1702.9	1551.4	94.61	899
69	1400.0	1248.6	1097.0	0945.6	0794.2	0642.8	0491.3	0340.0	0188.6	0037.3	94.23	922
2570	388 9885.8	9734.5	9583.2	9432.0	9280.7	9129.3	8978.0	8826.8	8675.6	8524.2	2993.96	0.76 945
71	8373.0	8221.8	8070.6	7919.3	7768.2	7617.0	7465.9	7314.8	7163.5	7012.4	93.69	968
72	6861.3	6710.2	6559.1	6408.0	6257.0	6106.0	5954.8	5803.8	5652.8	5501.8	93.42	991
73	5350.9	5199.8	5048.8	4897.9	4747.0	4595.9	4445.0	4294.1	4143.3	3992.2	93.15	0.77 014
74	3841.4	3690.6	3539.7	3388.9	3238.0	3087.2	2936.4	2785.6	2634.7	2484.0	92.88	037
75	2333.3	2182.5	2031.7	1881.0	1730.3	1579.6	1429.0	1278.2	1127.5	0976.9	92.61	060
76	0826.3	0675.5	0524.9	0374.4	0223.8	0073.1	*0922.6	*0772.0	*0621.5	*0470.8	92.34	083
77	387 9320.3	9169.9	9019.4	8868.9	8718.3	8567.9	8417.5	8267.0	8116.6	7966.1	92.07	106
78	7815.7	7665.3	7515.0	7364.5	7214.2	7063.8	6913.5	6763.1	6612.8	6462.5	91.80	129
79	6312.3	6162.0	6011.6	5861.4	5711.2	5561.0	5410.6	5260.4	5110.3	4960.1	91.53	152
2580	387 4809.8	4659.7	4509.5	4359.4	4209.3	4059.1	3909.0	3758.9	3608.9	3458.7	2991.26	0.77 175
81	3308.7	3158.7	3008.6	2858.6	2708.5	2558.5	2408.6	2258.6	2108.5	1958.6	90.99	197
82	1808.7	1658.8	1508.8	1358.9	1209.0	1059.1	0909.3	0759.3	0609.5	0459.7	90.73	220
83	0309.9	0160.0	0010.2	*0860.4	*0710.7	*0560.8	*0411.0	*0261.3	*0111.6	*0961.8	90.47	244
84	386 8812.1	8662.4	8512.8	8363.1	8213.3	8063.7	7914.1	7764.5	7614.8	7465.2	90.20	267
85	7315.6	7166.0	7016.3	6866.8	6717.3	6567.8	6418.3	6268.7	6119.2	5969.7	89.93	290
86	5820.3	5670.7	5521.2	5371.8	5222.4	5072.9	4923.5	4774.1	4624.8	4475.4	89.67	313
87	4325.9	4176.6	4027.3	3878.0	3728.6	3579.3	3430.0	3280.8	3131.5	2982.1	89.40	336
88	2832.9	2683.7	2534.5	2385.2	2236.0	2086.8	1937.7	1788.4	1639.3	1490.2	89.14	359
89	1341.0	1192.0	1042.7	0893.6	0744.6	0595.5	0446.4	0297.3	0148.3	*0999.3	88.87	382
2590	385 9850.0	9701.2	9552.2	9403.3	9254.3	9105.3	8956.3	8807.4	8658.5	8509.5	2988.61	405
91	8360.6	8211.7	8062.9	7913.9	7765.1	7616.3	7467.5	7318.7	7169.8	7021.0	88.35	428
92	6872.2	6723.4	6574.6	6425.8	6277.1	6128.4	5979.6	5830.9	5682.2	5533.6	88.09	451
93	5384.9	5236.1	5087.5	4938.9	4790.3	4641.6	4493.0	4344.4	4195.9	4047.2	87.83	474
94	3898.7	3750.1	3601.6	3453.0	3304.5	3156.0	3007.6	2859.1	2710.5	2562.1	87.57	498
95	2413.7	2265.3	2116.7	1968.3	1820.0	1671.6	1523.1	1374.8	1226.5	1078.1	87.31	521
96	0929.8	0781.4	0633.1	0484.9	0336.6	0188.2	0040.0	*0991.7	*0843.5	*0695.2	87.05	544
97	384 9447.0	9298.8	9150.7	9002.5	8854.2	8706.1	8558.0	8409.9	8261.6	8113.5	86.79	567
98	7905.4	7817.4	7669.2	7521.1	7373.1	7225.1	7077.1	6929.0	6781.0	6633.0	86.53	590
99	6485.0	6336.9	6189.0	6041.1	5893.2	5745.1	5597.2	5449.3	5301.5	5153.6	86.27	613
2600	384 5005.6	4857.8	4710.0	4562.1	4414.2	4266.4	4118.6	3970.9	3823.0	3675.2	2986.01	0.77 636

	154	153	152	151	150	149	148
1	15.4	15.3	15.2	15.1	15.0	14.9	14.8
2	30.8	30.6	30.4	30.2	30.0	29.8	29.6
3	46.2	45.9	45.6	45.3	45.0	44.7	44.4
4	61.6	61.2	60.8	60.4	60.0	59.6	59.2
5	77.0	76.5	76.0	75.5	75.0	74.5	74.0
6	92.4	91.8	91.2	90.6	90.0	89.4	88.8
7	107.8	107.1	106.4	105.7	105.0	104.3	103.6
8	123.2	122.4	121.6	120.8	120.0	119.2	118.4
9	138.6	137.7	136.8	135.9	135.0	134.1	133.2