

# Cable-X Installation Instructions

"1" Represents switch "on" or "closed"

"0" Represents switch "off" or "open"

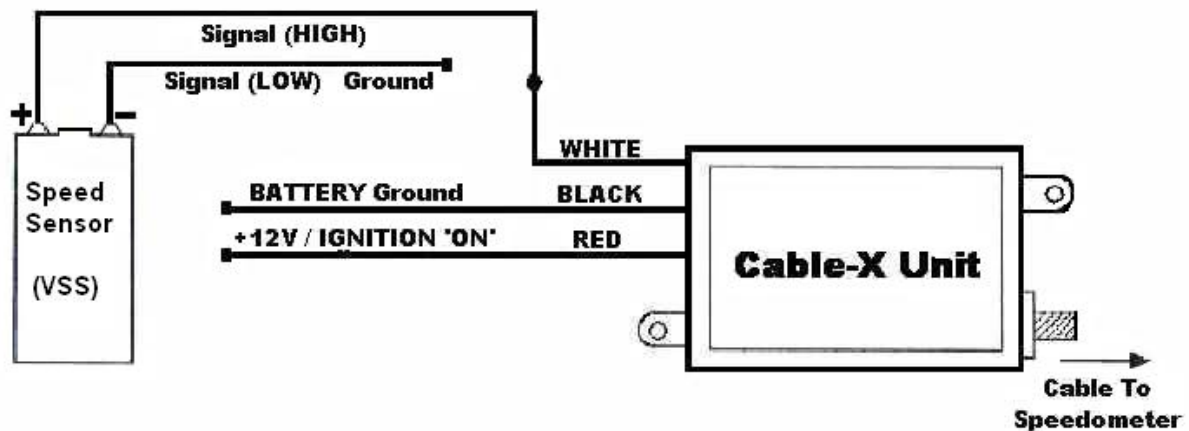
Printer Version

[http://www.atrol.com/speedometer/cablex\\_calibration\\_chart\\_print.htm](http://www.atrol.com/speedometer/cablex_calibration_chart_print.htm)

(Without the Color Pictures)

## Cable-X Wiring Diagram:

1. Connect the RED wire (through a 5 AMP fuse) to the engine side of the ignition switch (+12v 'hot' when the key is 'on').
2. Connect the BLACK wire to battery ground.
3. Connect the WHITE wire to the signal wire.



## Field Test Procedures:

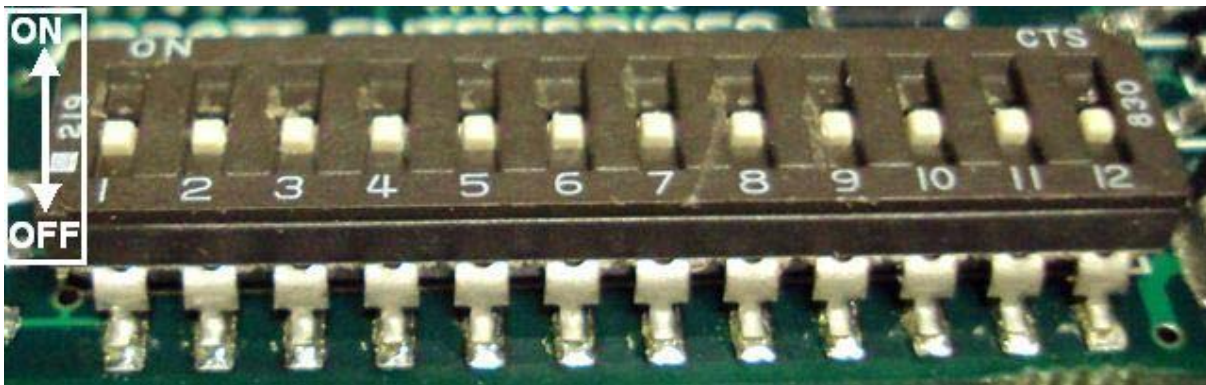
1. Remove / turn off power.
2. Remove the Cable-X cover / lid.



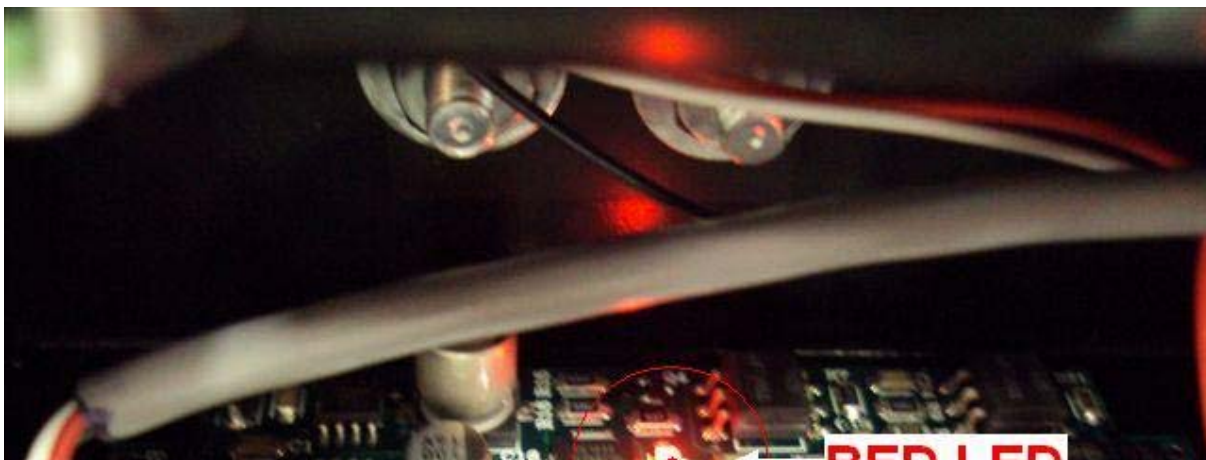


(Here is an inside view of the Cable-X with the lid removed.)

3. Write down your existing switch settings for possible future use.
4. Set all dip switches to the open (off) position.



5. Apply power. The "**LED**" must blink once when the power is applied. (The circuitry will only go into the self test mode if switches #1 through #11 are open (off) before the power is applied.)

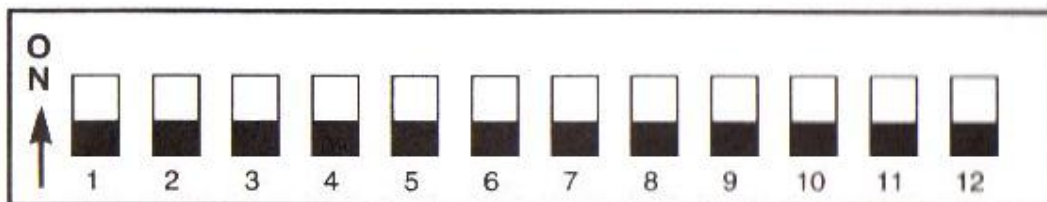




6. Close (turn on) switches #1 through #11 in order, beginning with #1. The "LED" will blink once after each switch is closed (turned on).
7. After switch #11 is closed, the speedometer will run at a speed of 60 MPH for 20 seconds. The vehicle odometer will advance a little over 0.3 miles. The "LED" will be on 'steady' during this part of the test. (Special Note to Cable-X-30 users: The speedometer will only run at 16 MPH during this test and less that 0.1 mile)
8. After the speedometer stops, the "LED" will blink on and off.
9. If all steps listed are completed, then the Cable-X unit is functioning properly.
10. If the Cable-X, after calibrating the switches, does not work, there is a 'signal' problem.
11. Now you are ready to calculate your specific pulses per mile for the Cable-X.

### Example of switches in the open (off) position:

(The Black portion of the switch in this diagram indicates the position of the switch)



Closed represents ON — Open represents OFF

### Calculating your Pulses Per Mile:

To program the Cable-X's dip switches for your particular vehicle, the following formula applies:

**(teeth on transmission exciter gear) X (rear axle ratio) X (revolutions per mile of your tires)**

- Teeth on transmission exciter gear. This would refer to the number of teeth or pulses the transmission would count out per revolution of the drive shaft. Most GMs with automatic transmissions output 40 pulses per revolution. High performance transmissions like in

transmissions output 40 pulses per revolution. High performance transmissions, like in Trans Ams, Camaros and Corvettes that have '6-speeds', usually have a 17 pulse per revolution output.

- The rear axle ratio. You will need to know your rear axle ratio for accurate calibration. The ratio of 3.73 will be used in the example.
- Revolutions per mile of your tires. If you do not know the revs per mile of your tire, it can be calculated. Measure from the ground up to the center of the axle, multiply this by 2. This gives you the height of the tire with the weight of the vehicle on it. Multiply this total by 3.14 (Pi). This gives you the circumference. Divide the number of inches in a mile (63360) by the circumference of the tire to find your revs per mile.
  - **Example:**
  - 14.5 inches from the ground to center of axle X2 = 29 inches tall.  
29 times 3.14 = 91.06  
63360 (inches per mile) divided by 91.06 (circumference) = 695.8 revs per mile

Now that you've gathered relevant information, you can calculate the pulses per mile of your vehicle.

- The above information will be used for calculations in the example.

### **Example:**

40 (teeth on exciter) X 3.73 (rear axle ratio) X 695.8 (revs per mile of tire) = 103813 pulses per mile.

Look up the nearest program setting in the calibration chart. The nearest setting for 103813 is 104000.

The switch setting for that pulse per mile setting is: 0 1 0 0 0 0 0 1 0 1 0 0.

Switches 2, 8 and 10 will be closed.

If you are using a signal generator (sending unit) instead of a VSS sensor, you can use the pulses per revolution X 1000 for a good starting point. For example: An 8 pulse signal generator X 1000 = 8000 pulses per mile. The setting for 8000 ppm is: 0 0 1 1 0 0 1 0 0 0 0 0. Switches 3, 4 and 7 will be closed.

If you are using the ECM speed output, the pulses are usually 4000 pulses per mile. The setting for 4000 ppm is: 0 0 0 1 1 0 0 1 0 0 0 0. Switches 4, 5 and 8 will be closed.

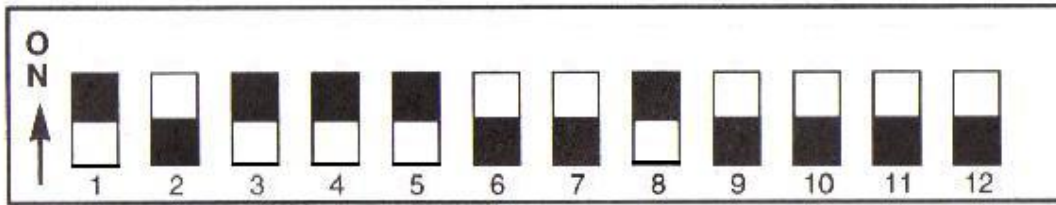
The above two signal sources will have to be recalibrated up or down because of rear axle ratios and tire sizes varying from stock.

*Note to users of the Cable-X-30 models: Multiply your pulses per mile by .267 and set your switches according to the new calculation for proper operation. The 'field test' will only run at 16 mph instead of the 60 mph as listed in the above procedure.*

**Example of switch settings for 29,600 pulses per mile:**



(The Black portion of the switch in this diagram indicates the position of the switch)



This example shows switches 1, 3, 4, 5, and 8 in the closed (on) position. The setting in the chart below would appear like:

1011100100

( where "1" represents switch is "on" or "closed", "0" represents switch is "off" or "open" )

There has been some confusion trying to read the chart the way it is laid out. Switch 10 has a specific function as a pulse divider by a factor of 10.

This function will take a high pulse rate and divide it by 10 to put it into the range of the Cable-X's calibration capabilities. Any pulse rate above 40,920 pulses per mile will need to have switch 10 turned on. (In the example above, if switch 10 was in the closed (on) position, the setting would be for a 296,000 pulse per mile signal.)

The chart below has a column with 10 settings for calibration, a column for switch #10 in the open (off) position {#10=0} and a column for switch #10 in the closed (on) position {#10=1}. After calculating your pulses per mile, decide which position switch #10 will be positioned. The ten settings in the first column (read the top row of the chart for switch numbers) are for switches 1, 2, 3, 4, 5, 6, 7, 8, 9, skips 10, and shows switch 11 after the 9 switch, making 10 settings to be made.

An example would be for a setting of 92,000 pulses per mile. Switch 10 would be closed (on). Look for 92,000 under the last column since switch 10 is 'on' and find the setting for your Cable-X. The setting is: 0011100110. (This is for switches 1-9, and 11).

Switch #12 is not normally used except when you have a 3-wire speed sensor (hall effect type) or an extremely weak signal and is only operational when factory activated.

More technical information to come..... Let me know if you have questions:

[Need Technical Help? Email: info@atrol.com](mailto:info@atrol.com)

Switch Settings										Impulse Speeds	
#1	#2	#3	#4	#5	#6	#7	#8	#9	#11	#10 = 0	#10 = 1
0	0	0	0	0	0	0	0	0	1	40	400
0	0	0	0	0	0	0	0	1	0	80	800
0	0	0	0	0	0	0	0	1	1	120	1200
0	0	0	0	0	0	0	1	0	0	160	1600
0	0	0	0	0	0	0	1	0	1	200	2000
0	0	0	0	0	0	0	1	1	0	240	2400
0	0	0	0	0	0	0	1	1	1	280	2800

0	0	0	0	0	0	1	0	0	0	320	3200
0	0	0	0	0	0	1	0	0	1	360	3600
0	0	0	0	0	0	1	0	1	0	400	4000
0	0	0	0	0	0	1	0	1	1	440	4400
0	0	0	0	0	0	1	1	0	0	480	4800
0	0	0	0	0	0	1	1	0	1	520	5200
0	0	0	0	0	0	1	1	1	0	560	5600
0	0	0	0	0	0	1	1	1	1	600	6000
0	0	0	0	0	1	0	0	0	0	640	6400
0	0	0	0	0	1	0	0	0	1	680	6800
0	0	0	0	0	1	0	0	1	0	720	7200
0	0	0	0	0	1	0	0	1	1	760	7600
0	0	0	0	0	1	0	1	0	0	800	8000
0	0	0	0	0	1	0	1	0	1	840	8400
0	0	0	0	0	1	0	1	1	0	880	8800
0	0	0	0	0	1	0	1	1	1	920	9200
0	0	0	0	0	1	1	0	0	0	960	9600
0	0	0	0	0	1	1	0	0	1	1000	10000
0	0	0	0	0	1	1	0	1	0	1040	10400
0	0	0	0	0	1	1	0	1	1	1080	10800
0	0	0	0	0	1	1	1	0	0	1120	11200
0	0	0	0	0	1	1	1	0	1	1160	11600
0	0	0	0	0	1	1	1	1	0	1200	12000
0	0	0	0	0	1	1	1	1	1	1240	12400
0	0	0	0	1	0	0	0	0	0	1280	12800
0	0	0	0	1	0	0	0	0	1	1320	13200
0	0	0	0	1	0	0	0	1	0	1360	13600
0	0	0	0	1	0	0	0	1	1	1400	14000
0	0	0	0	1	0	0	1	0	0	1440	14400
0	0	0	0	1	0	0	1	0	1	1480	14800
0	0	0	0	1	0	0	1	1	0	1520	15200
0	0	0	0	1	0	0	1	1	1	1560	15600
0	0	0	0	1	0	1	0	0	0	1600	16000
0	0	0	0	1	0	1	0	0	1	1640	16400

#1	#2	#3	#4	#5	#6	#7	#8	#9	#11	#10 = 0	#10 = 1
0	0	0	0	1	0	1	0	1	0	1680	16800
0	0	0	0	1	0	1	0	1	1	1720	17200
0	0	0	0	1	0	1	1	0	0	1760	17600
0	0	0	0	1	0	1	1	0	1	1800	18000
0	0	0	0	1	0	1	1	1	0	1840	18400
0	0	0	0	1	0	1	1	1	1	1880	18800
0	0	0	0	1	1	0	0	0	0	1920	19200
0	0	0	0	1	1	0	0	0	1	1960	19600
0	0	0	0	1	1	0	0	1	0	2000	20000
0	0	0	0	1	1	0	0	1	1	2040	20400
0	0	0	0	1	1	0	1	0	0	2080	20800
0	0	0	0	1	1	0	1	0	1	2120	21200
0	0	0	0	1	1	0	1	1	0	2160	21600
0	0	0	0	1	1	0	1	1	1	2200	22000
0	0	0	0	1	1	1	0	0	0	2240	22400
0	0	0	0	1	1	1	0	0	1	2280	22800
0	0	0	0	1	1	1	0	1	0	2320	23200
0	0	0	0	1	1	1	0	1	1	2360	23600
0	0	0	0	1	1	1	1	0	0	2400	24000
0	0	0	0	1	1	1	1	0	1	2440	24400
0	0	0	0	1	1	1	1	1	0	2480	24800
0	0	0	0	1	1	1	1	1	1	2520	25200
0	0	0	1	0	0	0	0	0	0	2560	25600
0	0	0	1	0	0	0	0	0	1	2600	26000
0	0	0	1	0	0	0	0	1	0	2640	26400
0	0	0	1	0	0	0	0	1	1	2680	26800
0	0	0	1	0	0	0	1	0	0	2720	27200

0	0	0	1	0	0	0	1	0	1	2760	27600
0	0	0	1	0	0	0	1	1	0	2800	28000
0	0	0	1	0	0	0	1	1	1	2840	28400
0	0	0	1	0	0	1	0	0	0	2880	28800
0	0	0	1	0	0	1	0	0	1	2920	29200
0	0	0	1	0	0	1	0	1	0	2960	29600
0	0	0	1	0	0	1	0	1	1	3000	30000
0	0	0	1	0	0	1	1	0	0	3040	30400
0	0	0	1	0	0	1	1	0	1	3080	30800
0	0	0	1	0	0	1	1	1	0	3120	31200
0	0	0	1	0	0	1	1	1	1	3160	31600
0	0	0	1	0	1	0	0	0	0	3200	32000
0	0	0	1	0	1	0	0	0	1	3240	32400
0	0	0	1	0	1	0	0	1	0	3280	32800
0	0	0	1	0	1	0	0	1	1	3320	33200
0	0	0	1	0	1	0	1	0	0	3360	33600
0	0	0	1	0	1	0	1	0	1	3400	34000
0	0	0	1	0	1	0	1	1	0	3440	34400
0	0	0	1	0	1	0	1	1	1	3480	34800
0	0	0	1	0	1	1	0	0	0	3520	35200
0	0	0	1	0	1	1	0	0	1	3560	35600
0	0	0	1	0	1	1	0	1	0	3600	36000
0	0	0	1	0	1	1	0	1	1	3640	36400
0	0	0	1	0	1	1	1	0	0	3680	36800
0	0	0	1	0	1	1	1	0	1	3720	37200

#1	#2	#3	#4	#5	#6	#7	#8	#9	#11	#10 = 0	#10 = 1
0	0	0	1	0	1	1	1	1	0	3760	37600
0	0	0	1	0	1	1	1	1	1	3800	38000
0	0	0	1	1	0	0	0	0	0	3840	38400
0	0	0	1	1	0	0	0	0	1	3880	38800
0	0	0	1	1	0	0	0	1	0	3920	39200
0	0	0	1	1	0	0	1	0	0	3960	39600
0	0	0	1	1	0	0	1	0	0	4000	40000
0	0	0	1	1	0	0	1	0	1	4040	40400
0	0	0	1	1	0	0	1	1	0	4080	40800
0	0	0	1	1	0	0	1	1	1	4120	41200
0	0	0	1	1	0	1	0	0	0	4160	41600
0	0	0	1	1	0	1	0	0	1	4200	42000
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0	0	0	1	1	0	1	1	0	1	4360	43600
0	0	0	1	1	0	1	1	1	0	4400	44000
0	0	0	1	1	0	1	1	1	1	4440	44400
0	0	0	1	1	1	0	0	0	0	4480	44800
0	0	0	1	1	1	0	0	0	1	4520	45200
0	0	0	1	1	1	0	0	1	0	4560	45600
0	0	0	1	1	1	0	0	1	1	4600	46000
0	0	0	1	1	1	0	1	0	0	4640	46400
0	0	0	1	1	1	0	1	0	1	4680	46800
0	0	0	1	1	1	0	1	1	0	4720	47200
0	0	0	1	1	1	0	1	1	1	4760	47600
0	0	0	1	1	1	1	0	0	0	4800	48000
0	0	0	1	1	1	1	0	0	1	4840	48400
0	0	0	1	1	1	1	0	1	0	4880	48800
0	0	0	1	1	1	1	0	1	1	4920	49200
0	0	0	1	1	1	1	1	0	0	4960	49600
0	0	0	1	1	1	1	1	0	1	5000	50000
0	0	0	1	1	1	1	1	1	0	5040	50400
0	0	0	1	1	1	1	1	1	1	5080	50800
0	0	1	0	0	0	0	0	0	0	5120	51200
0	0	1	0	0	0	0	0	0	1	5160	51600

0	0	1	0	0	0	0	0	0	1	5160	51600
0	0	1	0	0	0	0	0	1	0	5200	52000
0	0	1	0	0	0	0	0	1	1	5240	52400
0	0	1	0	0	0	0	1	0	0	5280	52800
0	0	1	0	0	0	0	1	0	1	5320	53200
0	0	1	0	0	0	0	0	1	1	5360	53600
0	0	1	0	0	0	0	0	1	1	5400	54000
0	0	1	0	0	0	1	0	0	0	5440	54400
0	0	1	0	0	0	1	0	0	1	5480	54800
0	0	1	0	0	0	1	0	1	0	5520	55200
0	0	1	0	0	0	1	0	1	1	5560	55600
0	0	1	0	0	0	1	1	0	0	5600	56000
0	0	1	0	0	0	1	1	0	1	5640	56400
0	0	1	0	0	0	1	1	1	0	5680	56800
0	0	1	0	0	0	1	1	1	1	5720	57200
0	0	1	0	0	1	0	0	0	0	5760	57600
0	0	1	0	0	1	0	0	0	1	5800	58000

#1	#2	#3	#4	#5	#6	#7	#8	#9	#11	#10 = 0	#10 = 1
0	0	1	0	0	1	0	0	1	0	5840	58400
0	0	1	0	0	1	0	0	1	1	5880	58800
0	0	1	0	0	1	0	1	0	0	5920	59200
0	0	1	0	0	1	0	1	0	1	5960	59600
0	0	1	0	0	1	0	1	1	0	6000	60000
0	0	1	0	0	1	0	1	1	1	6040	60400
0	0	1	0	0	1	1	0	0	0	6080	60800
0	0	1	0	0	1	1	0	0	1	6120	61200
0	0	1	0	0	1	1	0	1	0	6160	61600
0	0	1	0	0	1	1	0	1	1	6200	62000
0	0	1	0	0	1	1	1	0	0	6240	62400
0	0	1	0	0	1	1	1	0	1	6280	62800
0	0	1	0	0	1	1	1	1	0	6320	63200
0	0	1	0	0	1	1	1	1	1	6360	63600
0	0	1	0	1	0	0	0	0	0	6400	64000
0	0	1	0	1	0	0	0	0	1	6440	64400
0	0	1	0	1	0	0	0	1	0	6480	64800
0	0	1	0	1	0	0	0	1	1	6520	65200
0	0	1	0	1	0	0	1	0	0	6560	65600
0	0	1	0	1	0	0	1	0	1	6600	66000
0	0	1	0	1	0	0	1	1	0	6640	66400
0	0	1	0	1	0	0	1	1	1	6680	66800
0	0	1	0	1	0	1	0	0	0	6720	67200
0	0	1	0	1	0	1	0	0	1	6760	67600
0	0	1	0	1	0	1	0	1	0	6800	68000
0	0	1	0	1	0	1	0	1	1	6840	68400
0	0	1	0	1	0	1	1	0	0	6880	68800
0	0	1	0	1	0	1	1	0	1	6920	69200
0	0	1	0	1	0	1	1	1	0	6960	69600
0	0	1	0	1	0	1	1	1	1	7000	70000
0	0	1	0	1	1	0	0	0	0	7040	70400
0	0	1	0	1	1	0	0	0	1	7080	70800
0	0	1	0	1	1	0	0	1	0	7120	71200
0	0	1	0	1	1	0	0	1	1	7160	71600
0	0	1	0	1	1	0	1	0	0	7200	72000
0	0	1	0	1	1	0	1	0	1	7240	72400
0	0	1	0	1	1	0	1	1	0	7280	72800
0	0	1	0	1	1	0	1	1	1	7320	73200
0	0	1	0	1	1	1	0	0	0	7360	73600
0	0	1	0	1	1	1	0	0	1	7400	74000
0	0	1	0	1	1	1	0	1	0	7440	74400
0	0	1	0	1	1	1	0	1	1	7480	74800
0	0	1	0	1	1	1	1	0	0	7520	75200



0	0	1	0	1	1	1	1	0	1	7560	75600
0	0	1	0	1	1	1	1	1	0	7600	76000
0	0	1	0	1	1	1	1	1	1	7640	76400
0	0	1	1	0	0	0	0	0	0	7680	76800
0	0	1	1	0	0	0	0	0	1	7720	77200
0	0	1	1	0	0	0	0	1	0	7760	77600
0	0	1	1	0	0	0	0	1	1	7800	78000
0	0	1	1	0	0	0	1	0	0	7840	78400
0	0	1	1	0	0	0	1	0	1	7880	78800

#1	#2	#3	#4	#5	#6	#7	#8	#9	#11	#10 = 0	#10 = 1
0	0	1	1	0	0	0	1	1	0	7920	79200
0	0	1	1	0	0	0	1	1	1	7960	79600
0	0	1	1	0	0	1	0	0	0	8000	80000
0	0	1	1	0	0	1	0	0	1	8040	80400
0	0	1	1	0	0	1	0	1	0	8080	80800
0	0	1	1	0	0	1	0	1	1	8120	81200
0	0	1	1	0	0	1	1	0	0	8160	81600
0	0	1	1	0	0	1	1	0	1	8200	82000
0	0	1	1	0	0	1	1	1	0	8240	82400
0	0	1	1	0	0	1	1	1	1	8280	82800
0	0	1	1	0	1	0	0	0	0	8320	83200
0	0	1	1	0	1	0	0	0	1	8360	83600
0	0	1	1	0	1	0	0	1	0	8400	84000
0	0	1	1	0	1	0	0	1	1	8440	84400
0	0	1	1	0	1	0	1	0	0	8480	84800
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0	0	1	1	1	0	1	1	1	1	9560	95600
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0	0	1	1	1	1	0	1	0	0	9760	97600
0	0	1	1	1	1	0	1	0	1	9800	98000
0	0	1	1	1	1	0	1	1	0	9840	98400
0	0	1	1	1	1	0	1	1	1	9880	98800
0	0	1	1	1	1	1	0	0	0	9920	99200
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0	0	1	1	1	1	1	1	0	1	10120	101200
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0	0	1	1	1	1	1	1	1	1	10200	102000
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0	1	0	0	0	0	0	0	0	1	10360	103600
0	1	0	0	0	0	0	0	1	0	10400	104000
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0	1	0	0	0	0	1	0	0	0	10560	105600
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0	1	0	0	0	0	1	1	0	1	10760	107600
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0	1	0	0	1	0	1	0	1	1	11960	119600
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0	1	0	0	1	1	0	0	0	1	12200	122000
0	1	0	0	1	1	0	0	1	0	12240	122400

0	1	0	0	1	1	0	0	1	1	12280	122800
0	1	0	0	1	1	0	1	0	0	12320	123200
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0	1	0	0	1	1	0	1	1	0	12400	124000
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0	1	0	0	1	1	1	1	1	0	12720	127200
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0	1	0	1	0	0	0	0	0	1	12840	128400
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0	1	0	1	0	1	0	0	1	1	13560	135600
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0	1	0	1	0	1	1	1	0	1	13960	139600
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0	1	0	1	0	1	1	1	1	1	14040	140400
0	1	0	1	1	0	0	0	0	0	14080	140800
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0	1	0	1	1	0	0	1	1	1	14360	143600
0	1	0	1	1	0	1	0	0	0	14400	144000
0	1	0	1	1	0	1	0	0	1	14440	144400
0	1	0	1	1	0	1	0	1	0	14480	144800
0	1	0	1	1	0	1	0	1	1	14520	145200
0	1	0	1	1	0	1	1	0	0	14560	145600
0	1	0	1	1	0	1	1	0	1	14600	146000
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0	1	0	1	1	0	1	1	1	1	14680	146800
0	1	0	1	1	1	0	0	0	0	14720	147200
0	1	0	1	1	1	0	0	0	1	14760	147600
0	1	0	1	1	1	0	0	1	0	14800	148000
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0	1	0	1	1	1	0	1	0	1	14920	149200
0	1	0	1	1	1	0	1	1	0	14960	149600
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0	1	0	1	1	1	1	0	0	1	15080	150800
0	1	0	1	1	1	1	0	1	0	15120	151200
0	1	0	1	1	1	1	0	1	1	15160	151600
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0	1	0	1	1	1	1	1	1	0	15280	152800
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0	1	1	0	0	1	1	1	1	0	16560	165600
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0	1	1	0	1	0	0	0	0	1	16680	166800
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0	1	1	0	1	0	0	0	1	1	16760	167600
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0	1	1	0	1	0	1	0	0	1	17000	170000
0	1	1	0	1	0	1	0	1	0	17040	170400
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0	1	1	0	1	0	1	1	0	0	17120	171200
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0	1	1	0	1	0	1	1	1	0	17200	172000
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0	1	1	1	1	1	0	0	1	0	19920	199200
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0	1	1	1	1	1	0	1	0	0	20000	200000
0	1	1	1	1	1	0	1	0	1	20040	200400
0	1	1	1	1	1	0	1	1	0	20080	200800
0	1	1	1	1	1	0	1	1	1	20120	201200
0	1	1	1	1	1	1	0	0	0	20160	201600
0	1	1	1	1	1	1	0	0	1	20200	202000
0	1	1	1	1	1	1	0	1	0	20240	202400
0	1	1	1	1	1	1	0	1	1	20280	202800
0	1	1	1	1	1	1	1	0	0	20320	203200
0	1	1	1	1	1	1	1	0	1	20360	203600

#1	#2	#3	#4	#5	#6	#7	#8	#9	#11	#10 = 0	#10 = 1
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0	1	1	1	1	1	1	1	1	1	20440	204400
1	0	0	0	0	0	0	0	0	0	20480	204800
1	0	0	0	0	0	0	0	0	1	20520	205200
1	0	0	0	0	0	0	0	0	1	20560	205600
1	0	0	0	0	0	0	0	1	1	20600	206000
1	0	0	0	0	0	0	0	1	0	20640	206400
1	0	0	0	0	0	0	0	1	0	20680	206800
1	0	0	0	0	0	0	0	1	1	20720	207200
1	0	0	0	0	0	0	0	1	1	20760	207600
1	0	0	0	0	0	0	1	0	0	20800	208000
1	0	0	0	0	0	0	1	0	0	20840	208400
1	0	0	0	0	0	0	1	0	1	20880	208800
1	0	0	0	0	0	0	1	0	1	20920	209200
1	0	0	0	0	0	0	1	1	0	20960	209600
1	0	0	0	0	0	0	1	1	0	21000	210000
1	0	0	0	0	0	0	1	1	1	21040	210400
1	0	0	0	0	0	0	1	1	1	21080	210800
1	0	0	0	0	0	1	0	0	0	21120	211200
1	0	0	0	0	0	1	0	0	0	21160	211600
1	0	0	0	0	0	1	0	0	1	21200	212000
1	0	0	0	0	0	1	0	0	1	21240	212400
1	0	0	0	0	0	1	0	1	0	21280	212800
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1	0	0	0	0	0	1	0	1	1	21360	213600
1	0	0	0	0	0	1	0	1	1	21400	214000
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1	0	0	0	0	0	1	1	0	0	21480	214800
1	0	0	0	0	0	1	1	0	1	21520	215200
1	0	0	0	0	0	1	1	0	1	21560	215600
1	0	0	0	0	0	1	1	1	0	21600	216000
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1	0	0	0	0	1	0	0	0	0	21800	218000
1	0	0	0	0	1	0	0	0	1	21840	218400
1	0	0	0	0	1	0	0	0	1	21880	218800
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1	0	0	0	1	0	0	1	0	1	21960	219600
1	0	0	0	1	0	0	1	1	0	22000	220000
1	0	0	0	1	0	0	1	1	1	22040	220400
1	0	0	0	1	0	1	0	0	0	22080	220800
1	0	0	0	1	0	1	0	0	1	22120	221200
1	0	0	0	1	0	1	0	1	0	22160	221600
1	0	0	0	1	0	1	0	1	1	22200	222000
1	0	0	0	1	0	1	1	0	0	22240	222400
1	0	0	0	1	0	1	1	0	1	22280	222800
1	0	0	0	1	0	1	1	1	0	22320	223200
1	0	0	0	1	0	1	1	1	1	22360	223600
1	0	0	0	1	1	0	0	0	0	22400	224000
1	0	0	0	1	1	0	0	0	1	22440	224400

#1	#2	#3	#4	#5	#6	#7	#8	#9	#11	#10 = 0	#10 = 1
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1	0	0	0	1	1	0	0	1	1	22520	225200
1	0	0	0	1	1	0	1	0	0	22560	225600
1	0	0	0	1	1	0	1	0	1	22600	226000
1	0	0	0	1	1	0	1	1	0	22640	226400
1	0	0	0	1	1	0	1	1	1	22680	226800
1	0	0	0	1	1	1	0	0	0	22720	227200
1	0	0	0	1	1	1	0	0	1	22760	227600
1	0	0	0	1	1	1	0	1	0	22800	228000
1	0	0	0	1	1	1	0	1	1	22840	228400
1	0	0	0	1	1	1	1	0	0	22880	228800
1	0	0	0	1	1	1	1	0	1	22920	229200
1	0	0	0	1	1	1	1	1	0	22960	229600
1	0	0	0	1	1	1	1	1	1	23000	230000
1	0	0	1	0	0	0	0	0	0	23040	230400
1	0	0	1	0	0	0	0	0	1	23080	230800
1	0	0	1	0	0	0	0	1	0	23120	231200
1	0	0	1	0	0	0	0	1	1	23160	231600
1	0	0	1	0	0	0	1	0	0	23200	232000
1	0	0	1	0	0	0	1	0	1	23240	232400
1	0	0	1	0	0	0	1	1	0	23280	232800
1	0	0	1	0	0	0	1	1	1	23320	233200
1	0	0	1	0	0	1	0	0	0	23360	233600
1	0	0	1	0	0	1	0	0	1	23400	234000
1	0	0	1	0	0	1	0	1	0	23440	234400
1	0	0	1	0	0	1	0	1	1	23480	234800
1	0	0	1	0	0	1	1	0	0	23520	235200
1	0	0	1	0	0	1	1	0	1	23560	235600
1	0	0	1	0	0	1	1	1	0	23600	236000
1	0	0	1	0	0	1	1	1	1	23640	236400
1	0	0	1	0	1	0	0	0	0	23680	236800
1	0	0	1	0	1	0	0	0	1	23720	237200
1	0	0	1	0	1	0	0	1	0	23760	237600
1	0	0	1	0	1	0	0	1	1	23800	238000
1	0	0	1	0	1	0	1	0	0	23840	238400
1	0	0	1	0	1	0	1	0	1	23880	238800
1	0	0	1	0	1	0	1	1	0	23920	239200
1	0	0	1	0	1	0	1	1	1	23960	239600
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1	0	0	1	0	1	1	0	0	1	24040	240400
1	0	0	1	0	1	1	0	1	0	24080	240800
1	0	0	1	0	1	1	0	1	1	24120	241200
1	0	0	1	0	1	1	1	0	0	24160	241600
1	0	0	1	0	1	1	1	0	1	24200	242000
1	0	0	1	0	1	1	1	1	0	24240	242400
1	0	0	1	0	1	1	1	1	1	24280	242800
1	0	0	1	1	0	0	0	0	0	24320	243200
1	0	0	1	1	0	0	0	0	1	24360	243600

±	∪	∩	±	±	∪	∪	∪	∪	±	24300	243000
1	0	0	1	1	0	0	0	1	0	24400	244000
1	0	0	1	1	0	0	0	1	1	24440	244400
1	0	0	1	1	0	0	1	0	0	24480	244800
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#1	#2	#3	#4	#5	#6	#7	#8	#9	#11	#10 = 0	#10 = 1
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1	0	0	1	1	0	1	0	0	0	24640	246400
1	0	0	1	1	0	1	0	0	1	24680	246800
1	0	0	1	1	0	1	0	1	0	24720	247200
1	0	0	1	1	0	1	0	1	1	24760	247600
1	0	0	1	1	0	1	1	0	0	24800	248000
1	0	0	1	1	0	1	1	0	1	24840	248400
1	0	0	1	1	0	1	1	1	0	24880	248800
1	0	0	1	1	1	0	0	0	0	24920	249200
1	0	0	1	1	1	0	0	0	1	24960	249600
1	0	0	1	1	1	0	0	0	1	25000	250000
1	0	0	1	1	1	0	0	1	0	25040	250400
1	0	0	1	1	1	0	0	1	1	25080	250800
1	0	0	1	1	1	0	1	0	0	25120	251200
1	0	0	1	1	1	0	1	0	1	25160	251600
1	0	0	1	1	1	0	1	1	0	25200	252000
1	0	0	1	1	1	0	1	1	1	25240	252400
1	0	0	1	1	1	1	0	0	0	25280	252800
1	0	0	1	1	1	1	0	0	1	25320	253200
1	0	0	1	1	1	1	0	1	0	25360	253600
1	0	0	1	1	1	1	0	1	1	25400	254000
1	0	0	1	1	1	1	1	0	0	25440	254400
1	0	0	1	1	1	1	1	0	1	25480	254800
1	0	0	1	1	1	1	1	1	0	25520	255200
1	0	0	1	1	1	1	1	1	1	25560	255600
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1	0	1	0	0	0	0	0	1	0	25680	256800
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1	0	1	0	0	0	0	1	0	0	25760	257600
1	0	1	0	0	0	0	1	0	1	25800	258000
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1	0	1	0	0	0	1	0	0	1	25920	259200
1	0	1	0	0	0	1	0	0	1	25960	259600
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1	0	1	0	0	1	0	0	0	1	26280	262800
1	0	1	0	0	1	0	0	1	0	26320	263200
1	0	1	0	0	1	0	0	1	1	26360	263600
1	0	1	0	0	1	0	1	0	0	26400	264000
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1	0	1	0	0	1	0	1	1	0	26480	264800
1	0	1	0	0	1	0	1	1	1	26520	265200
1	0	1	0	0	1	1	0	0	0	26560	265600
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#1 #2 #3 #4 #5 #6 #7 #8 #9 #11 #10 = 0 #10 = 1

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1	0	1	0	0	1	1	1	0	0	26720	267200
1	0	1	0	0	1	1	1	0	1	26760	267600
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1	0	1	0	1	0	0	0	0	0	26880	268800
1	0	1	0	1	0	0	0	0	1	26920	269200
1	0	1	0	1	0	0	0	1	0	26960	269600
1	0	1	0	1	0	0	0	1	1	27000	270000
1	0	1	0	1	0	0	1	0	0	27040	270400
1	0	1	0	1	0	0	1	0	1	27080	270800
1	0	1	0	1	0	0	1	1	0	27120	271200
1	0	1	0	1	0	0	1	1	1	27160	271600
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1	0	1	0	1	0	1	0	0	1	27240	272400
1	0	1	0	1	0	1	0	1	0	27280	272800
1	0	1	0	1	0	1	0	1	1	27320	273200
1	0	1	0	1	0	1	1	0	0	27360	273600
1	0	1	0	1	0	1	1	0	1	27400	274000
1	0	1	0	1	0	1	1	1	0	27440	274400
1	0	1	0	1	0	1	1	1	1	27480	274800
1	0	1	0	1	1	0	0	0	0	27520	275200
1	0	1	0	1	1	0	0	0	1	27560	275600
1	0	1	0	1	1	0	0	1	0	27600	276000
1	0	1	0	1	1	0	0	1	1	27640	276400
1	0	1	0	1	1	0	1	0	0	27680	276800
1	0	1	0	1	1	0	1	0	1	27720	277200
1	0	1	0	1	1	0	1	1	0	27760	277600
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1	0	1	0	1	1	1	0	0	0	27840	278400
1	0	1	0	1	1	1	0	0	1	27880	278800
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1	0	1	0	1	1	1	0	1	1	27960	279600
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1	0	1	0	1	1	1	1	1	0	28080	280800
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1	0	1	1	0	0	0	0	1	0	28240	282400
1	0	1	1	0	0	0	0	1	1	28280	282800
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1	0	1	1	0	0	1	0	1	0	28560	285600
1	0	1	1	0	0	1	0	1	1	28600	286000
1	0	1	1	0	0	1	1	0	0	28640	286400
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#1	#2	#3	#4	#5	#6	#7	#8	#9	#11	#10 = 0	#10 = 1
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1	0	1	1	0	0	1	1	1	1	28760	287600
1	0	1	1	0	1	0	0	0	0	28800	288000
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1	0	1	1	0	1	0	0	1	1	28920	289200
1	0	1	1	0	1	0	1	0	0	28960	289600
1	0	1	1	0	1	0	1	0	1	29000	290000
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1	0	1	1	0	1	0	1	1	0	29040	290400
1	0	1	1	0	1	0	1	1	1	29080	290800
1	0	1	1	0	1	1	0	0	0	29120	291200
1	0	1	1	0	1	1	0	0	1	29160	291600
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1	0	1	1	0	1	1	1	0	0	29280	292800
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1	0	1	1	1	0	0	0	1	0	29520	295200
1	0	1	1	1	0	0	0	1	1	29560	295600
1	0	1	1	1	0	0	1	0	0	29600	296000
1	0	1	1	1	0	0	1	0	1	29640	296400
1	0	1	1	1	0	0	1	1	0	29680	296800
1	0	1	1	1	0	0	1	1	1	29720	297200
1	0	1	1	1	0	1	0	0	0	29760	297600
1	0	1	1	1	0	1	0	0	1	29800	298000
1	0	1	1	1	0	1	0	1	0	29840	298400
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1	0	1	1	1	0	1	1	0	0	29920	299200
1	0	1	1	1	0	1	1	0	1	29960	299600
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1	0	1	1	1	1	0	0	0	1	30120	301200
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1	0	1	1	1	1	0	0	1	1	30200	302000
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1	0	1	1	1	1	0	1	0	1	30280	302800
1	0	1	1	1	1	0	1	1	0	30320	303200
1	0	1	1	1	1	0	1	1	1	30360	303600
1	0	1	1	1	1	1	0	0	0	30400	304000
1	0	1	1	1	1	1	0	0	1	30440	304400
1	0	1	1	1	1	1	0	1	0	30480	304800
1	0	1	1	1	1	1	0	1	1	30520	305200
1	0	1	1	1	1	1	1	1	0	30560	305600
1	0	1	1	1	1	1	1	1	0	30600	306000
1	0	1	1	1	1	1	1	1	1	30640	306400
1	0	1	1	1	1	1	1	1	1	30680	306800
1	1	0	0	0	0	0	0	0	0	30720	307200
1	1	0	0	0	0	0	0	0	1	30760	307600

#1	#2	#3	#4	#5	#6	#7	#8	#9	#11	#10 = 0	#10 = 1
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1	1	0	0	0	0	0	1	0	0	30880	308800
1	1	0	0	0	0	0	1	0	1	30920	309200
1	1	0	0	0	0	0	1	1	0	30960	309600
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1	1	0	0	0	0	1	0	0	1	31080	310800
1	1	0	0	0	0	1	0	1	0	31120	311200
1	1	0	0	0	0	1	0	1	1	31160	311600
1	1	0	0	0	0	1	1	0	0	31200	312000
1	1	0	0	0	0	1	1	0	1	31240	312400
1	1	0	0	0	0	1	1	1	0	31280	312800
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1	1	0	0	1	1	1	0	1	0	33040	330400
1	1	0	0	1	1	1	0	1	1	33080	330800
1	1	0	0	1	1	1	1	0	0	33120	331200
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1	1	0	0	1	1	1	1	1	1	33240	332400
1	1	0	1	0	0	0	0	0	0	33280	332800
1	1	0	1	0	0	0	0	0	1	33320	333200
1	1	0	1	0	0	0	0	1	0	33360	333600
1	1	0	1	0	0	0	0	1	1	33400	334000
1	1	0	1	0	0	0	1	0	0	33440	334400
1	1	0	1	0	0	0	1	0	1	33480	334800
1	1	0	1	0	0	0	1	1	0	33520	335200
1	1	0	1	0	0	0	1	1	1	33560	335600
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1	1	0	1	1	0	0	1	1	1	34840	348400
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1	1	0	1	1	0	1	1	0	1	35080	350800
1	1	0	1	1	0	1	1	1	0	35120	351200
1	1	0	1	1	0	1	1	1	1	35160	351600
1	1	0	1	1	1	0	0	0	0	35200	352000
1	1	0	1	1	1	0	0	0	1	35240	352400
1	1	0	1	1	1	0	0	1	0	35280	352800
1	1	0	1	1	1	0	0	1	1	35320	353200
1	1	0	1	1	1	0	1	0	0	35360	353600
1	1	0	1	1	1	0	1	0	1	35400	354000
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1	1	0	1	1	1	1	1	0	0	35560	355600
1	1	0	1	1	1	1	1	0	1	35600	356000
1	1	0	1	1	1	1	1	0	1	35640	356400
1	1	0	1	1	1	1	1	1	0	35680	356800
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1	1	1	0	0	1	1	0	1	1	36920	369200
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1	1	1	0	1	0	0	1	0	0	37280	372800
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1	1	1	0	1	0	0	1	1	0	37360	373600
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1	1	1	1	0	0	0	0	1	1	38520	385200
1	1	1	1	0	0	0	1	0	0	38560	385600
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1	1	1	1	1	0	1	0	1	0	40080	400800
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1	1	1	1	1	0	1	1	1	1	40280	402800
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1	1	1	1	1	1	1	1	1	1	40920	409200

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(870) 535-4973 Fax: (870) 535-4970**

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