

# MODE A AND MODE C

## THE STRAIGHT SCOOP ON HOW IT WORKS

by

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What happens when you dial "1200" into your transponder? How is aircraft altitude transmitted to the controller? What is Mode A and Mode C anyway?

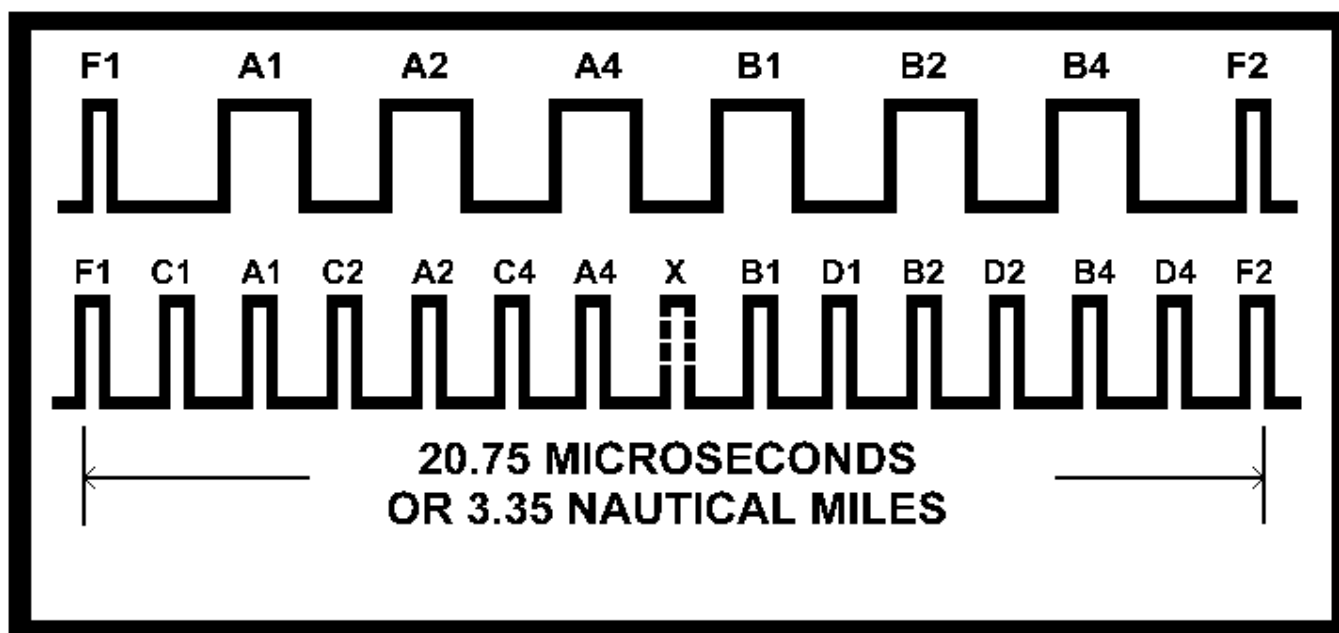
To find answers, perhaps we should begin with a little history. The Air Traffic Control Radar Beacon System (ATCRBS) is an outgrowth of the IFF equipment developed during World War II, at the same time radar itself was coming into use. The problem was differentiating between the good guys and the bad guys, and IFF (Identification, Friend or Foe) was the answer. The equipment on board each allied aircraft received the radar pulses, and transmitted a secret code in reply. There were 64 possible codes, and the idea worked quite well.

After the war the concept was adapted for air traffic control. Improvements were made, and the interrogator was separated from the radar itself. It still rotates around on the same dish, looking in the same direction, and is displayed on the same scope, in the same shade of green. (Ever wonder why the FAA never learned the advantages of color? I've wondered that too.)

The 64 codes consisted of two digits, called A and B. (These are not Mode A and B, that is something else altogether.) There were two knobs, A and B. Each digit has 8 possibilities, from 0 thru 7.  $8 \times 8 = 64$ , so there were 64 possible codes.

Figure 1 shows the original 64 code format, and today's 4096 code format under it. Each reply consisted of a framing pulse, some combination of the six possible data pulses, and another framing pulse. It all took place in 20.75 microseconds. At the speed of light, a radio signal travels 3.35 NM in that much time. Like ripples in a pond, the signal travels outward from the plane, and when the last of the signal leaves the antenna, the first is 3.35 milles away.

### Figure 1



The pulse numbers are binary weighted, so it is easy to determine the relationship between pulses and the number they represent. The A digit, for example, looks like this, with 1 representing a pulse, and 0 representing no pulse:

	0	1	2	3	4	5	6	7
A1	0	1	0	1	0	1	0	1
A2	0	0	1	1	0	0	1	1
A4	0	0	0	0	1	1	1	1

The same pattern applies to digits (knobs) B, C, and D.

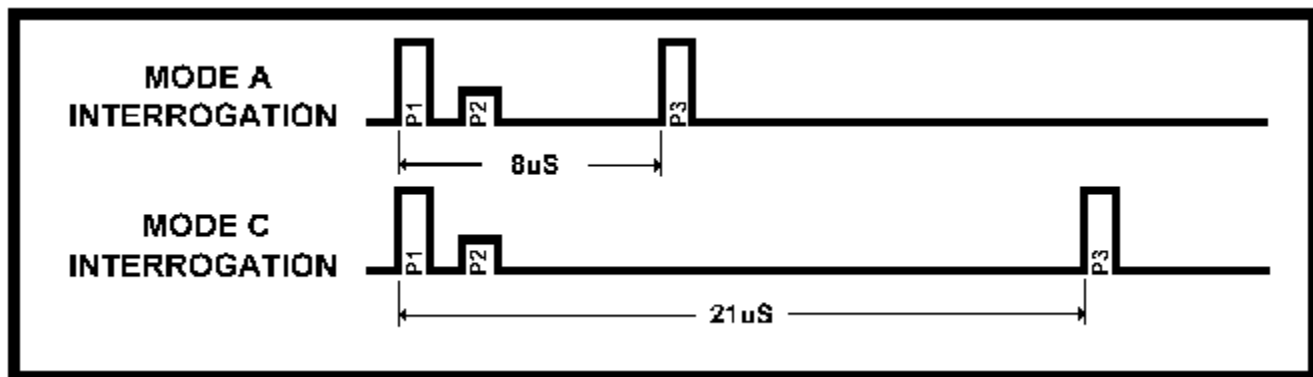
Pretty soon 64 squawk codes weren't enough, and a scheme evolved to place a pulse between each of the original pulses. This gave us  $8 \times 8 \times 8 \times 8 = 4096$ , the system we have today. The C digit nested into the A digit, likewise the D interdigitated with B. In the process the new X pulse appeared and could have been used to differentiate between Squawk and Altitude replies, but it wasn't. X has never been used for anything.

So today we have transponders with four knobs, which represent A, B, C, and D. Each can be set to anything from 0 to 7 (the switches don't have a position 8 or 9.) To squawk 1200, the A knob is set to 1, B is set to 2, C and D are set to 0.

If the transponder receives a Mode A interrogation, it transmits the squawk code, as set by the pilot. If it receives a Mode C interrogation, it transmits the altitude code, as supplied by the encoder. It's important to understand that AT NO TIME does the transponder send both. It's one or the other, if the ground station sends a Mode A interrogation, the transponder replies with a string of pulses that are the squawk code only. If a Mode C interrogation, the reply is altitude only.

Figure 2 illustrates the interrogation pulses. These pulses are transmitted on 1030 Mhz. All interrogators use the same frequency. The space between P1 and P3 defines the type of request, Mode A (the feds call this 3/A), or Mode C. If the P1-P3 timing is 8 microseconds, leading edge to leading edge, a Mode A response is expected, and if 21 microseconds, the request is for Mode C (altitude) data. P2 is used for sidelobe suppression, so that the transponder will only respond to the principal forward lobe of the rotating antenna, even when flying in strong signal near the interrogating site. Long range radar installations, the kind Center uses, typically alternate A, C, A, C, on a one to one ratio. ASR usually looks

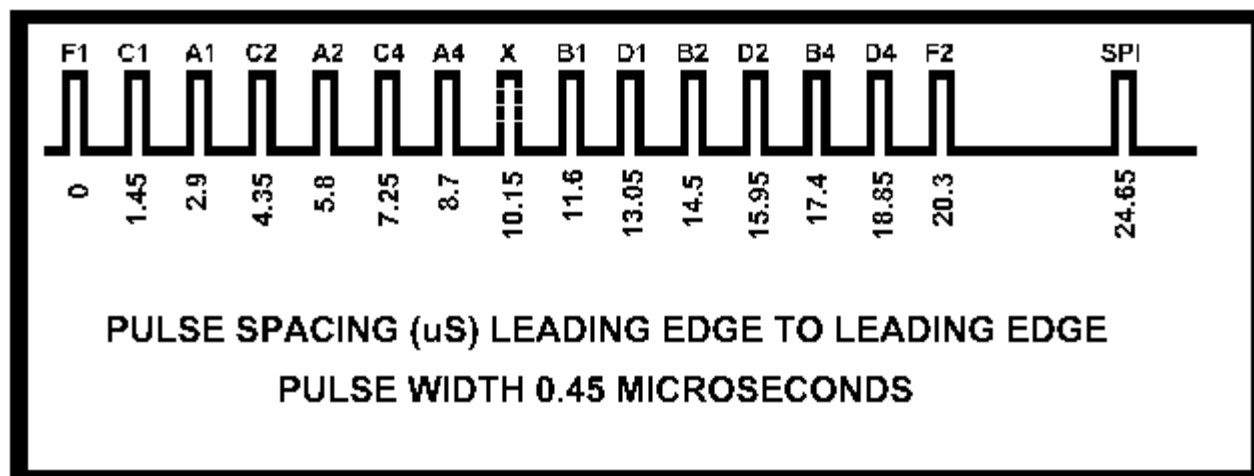
like this: A, A, C, A, A, C, with two squawk requests for each altitude interrogation.



**Figure 2**

The output of the transponder is on the frequency of 1090 Mhz. Pulse position and timing specs are shown in Figure 3. The SPI pulse is present only when the Ident button has been pressed, and lasts about 10 seconds.

**Figure 3**



There is no difference between a Mode A and Mode C reply. If a Mode A interrogation is issued, a Mode A reply is expected, and the pulses will be decoded that way. Likewise, if a Mode C request is made, the data received from the aircraft will be calculated as altitude. This works well with only one ground station, but with several stations interrogating the same aircraft, mistakes can and do occur.

The Mode C data is pressure altitude, i.e., set to 29.92". This is equally true whether you are using a blind encoder, or an encoding altimeter. (If it weren't so, the controller would have to know what type of encoder you are using.) Usually there will be a substantial difference between pressure altitude and the reading shown on the altimeter. Often hundreds of feet. (Hint: Turn your barometric adjust knob on your altimeter from one end to the other, and see how much difference it makes in the altitude reading. On most altimeters, it's about 2700 ft.)

The ground equipment automatically adds the necessary barometric correction, according to the local pressure. The controller sees the same reading on his scope that the pilot sees on the altimeter, if both are using the same barometric setting. It is possible, indeed likely, that another ATC facility is indicating this aircraft at a different altitude, since the barometric pressure varies from one location to another.

Each altitude code has an equivalent squawk code. The [list of altitude codes](#) shows how that same data would decode as a squawk rather than altitude. But each squawk code does not necessarily have an equivalent altitude. There are 4096

squawk codes but only 1280 altitude codes, one for each 100 foot increment from -1200 to 126,700 ft.

Why do the altitudes go all the way down to a negative 1200 ft? It's the barometric thing again. If you are physically located at sea level on a day with pressure above 29.92, your encoder will be putting out an altitude (pressure altitude) below zero. To accommodate the possible high pressures, the range goes down to -1200.

Altitude encoders switch from one code to the next nominally at the 50 foot point. Thus the code should indicate 1000 ft. at any height from 950 to 1050 ft., pressure altitude. But don't depend on it, the specifications are somewhat loose.

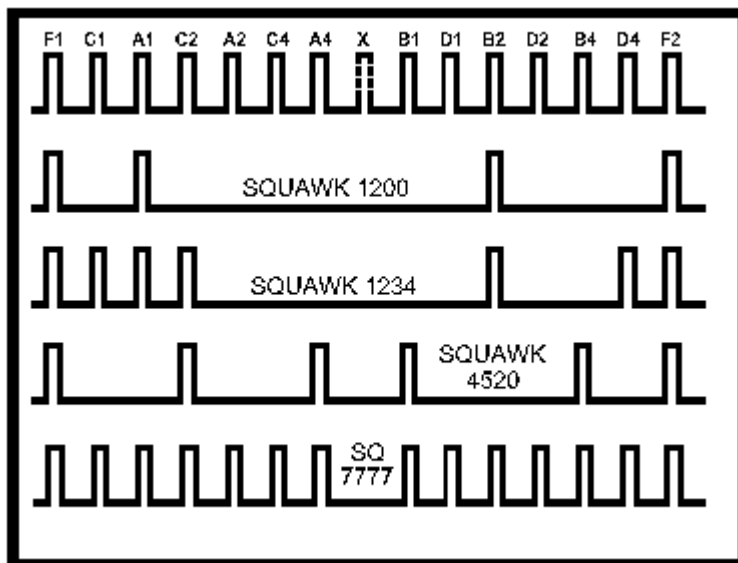
But in the real world, when does the encoder switch? This is a question of practical importance to the pilot, because it can make the difference between a violation or not. The answer isn't simple. Encoders switch when they feel like it. If the encoder was perfect (none are) and temperature and humidity and gravity and barometric pressure were standard (they never are) and there were no vibration or static system error (and if you believe in Santa Clause and the Easter Bunny), then the encoder will switch as stated above, at the 50 ft point. But consider just one variable, barometric pressure. If it was 29.93, just one one-hundredth of an inch above standard, the encoder would switch at the 40 ft point (1040, 1140, 1240 etc). At 29.96, the encoder would switch near the 10 ft point, and at 29.97 reported altitude would switch at the assigned altitude.

So you can see that if you are assigned 6000 ft, for example, your encoder would be jumping up and down between 5900 and 6000, while you are cruising steady at your assigned altitude. This is one reason why it's important to have a readout, so you can see what your equipment is reporting to ATC.

The altitude coding pattern was developed when mechanical encoders were the only way to digitize the data. It is somewhat bass-ackwards, with D2 as the most significant bit, followed with D4, A1, A2, A4, B1, B2, B4, in a gray code that changes every 500 feet. The least significant digit is C, with C1, C2, C4 following a recyclic code different from the gray pattern. Note that only one bit changes for each increment of altitude. Bit D1 is never used and always remains a "0". There are 3 illegal combinations of C bits, 000, 101, and 111.

One further note on the Mode C codes. Transponder data inputs are inverted logic. A logic "1" is ground, while a "0" is allowed to float to some positive voltage, depending on the particular transponder model. To indicate an altitude of 3500 ft., for instance a ground is placed on A4, B1, B4 and C2.

**Figure 4**



## **Table of Mode A and Mode C Encoder Data**

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## TABLE OF MODE A AND MODE C ENCODER DATA

ALTITUDE	A1	A2	A4	B1	B2	B4	C1	C2	C4	D1	D2	D4	SQUAWK
-1200	0	0	0	0	0	0	0	0	1	0	0	0	0040
-1100	0	0	0	0	0	0	0	1	1	0	0	0	0060
-1000	0	0	0	0	0	0	0	1	0	0	0	0	0020
-900	0	0	0	0	0	0	1	1	0	0	0	0	0030
-800	0	0	0	0	0	0	1	0	0	0	0	0	0010
-700	0	0	0	0	0	1	1	0	0	0	0	0	0410
-600	0	0	0	0	0	1	1	1	0	0	0	0	0430
-500	0	0	0	0	0	1	0	1	0	0	0	0	0420
-400	0	0	0	0	0	1	0	1	1	0	0	0	0460
-300	0	0	0	0	0	1	0	0	1	0	0	0	0440
-200	0	0	0	0	1	1	0	0	1	0	0	0	0640
-100	0	0	0	0	1	1	0	1	1	0	0	0	0660
0	0	0	0	0	1	1	0	1	0	0	0	0	0620
100	0	0	0	0	1	1	1	1	0	0	0	0	0630
200	0	0	0	0	1	1	1	0	0	0	0	0	0610
300	0	0	0	0	1	0	1	0	0	0	0	0	0210
400	0	0	0	0	1	0	1	1	0	0	0	0	0230
500	0	0	0	0	1	0	0	1	0	0	0	0	0220
600	0	0	0	0	1	0	0	1	1	0	0	0	0260
700	0	0	0	0	1	0	0	0	1	0	0	0	0240
800	0	0	0	1	1	0	0	0	1	0	0	0	0340
900	0	0	0	1	1	0	0	1	1	0	0	0	0360
1000	0	0	0	1	1	0	0	1	0	0	0	0	0320
1100	0	0	0	1	1	0	1	1	0	0	0	0	0330
1200	0	0	0	1	1	0	1	0	0	0	0	0	0310
1300	0	0	0	1	1	1	1	0	0	0	0	0	0710
1400	0	0	0	1	1	1	1	1	0	0	0	0	0730
1500	0	0	0	1	1	1	0	1	0	0	0	0	0720
1600	0	0	0	1	1	1	0	1	1	0	0	0	0760
1700	0	0	0	1	1	1	0	0	1	0	0	0	0740
1800	0	0	0	1	0	1	0	0	1	0	0	0	0540
1900	0	0	0	1	0	1	0	1	1	0	0	0	0560
2000	0	0	0	1	0	1	0	1	0	0	0	0	0520
2100	0	0	0	1	0	1	1	1	0	0	0	0	0530
2200	0	0	0	1	0	1	1	0	0	0	0	0	0510
2300	0	0	0	1	0	0	1	0	0	0	0	0	0110
2400	0	0	0	1	0	0	1	1	0	0	0	0	0130
2500	0	0	0	1	0	0	0	1	0	0	0	0	0120
2600	0	0	0	1	0	0	0	1	1	0	0	0	0160
2700	0	0	0	1	0	0	0	0	1	0	0	0	0140
2800	0	0	1	1	0	0	0	0	1	0	0	0	4140
2900	0	0	1	1	0	0	0	1	1	0	0	0	4160
3000	0	0	1	1	0	0	0	1	0	0	0	0	4120
3100	0	0	1	1	0	0	1	1	0	0	0	0	4130
3200	0	0	1	1	0	0	1	0	0	0	0	0	4110
3300	0	0	1	1	0	1	1	0	0	0	0	0	4510
3400	0	0	1	1	0	1	1	1	0	0	0	0	4530
3500	0	0	1	1	0	1	0	1	0	0	0	0	4520
3600	0	0	1	1	0	1	0	1	1	0	0	0	4560
3700	0	0	1	1	0	1	0	0	1	0	0	0	4540
3800	0	0	1	1	1	1	0	0	1	0	0	0	4740
3900	0	0	1	1	1	1	0	1	1	0	0	0	4760
4000	0	0	1	1	1	1	0	1	0	0	0	0	4720
4100	0	0	1	1	1	1	1	1	0	0	0	0	4730
4200	0	0	1	1	1	1	1	0	0	0	0	0	4710
4300	0	0	1	1	1	0	1	0	0	0	0	0	4310

4400	0	0	1	1	1	0	1	1	0	0	0	0	4330
4500	0	0	1	1	1	0	0	1	0	0	0	0	4320
4600	0	0	1	1	1	0	0	1	1	0	0	0	4360
4700	0	0	1	1	1	0	0	0	1	0	0	0	4340
4800	0	0	1	0	1	0	0	0	1	0	0	0	4240
4900	0	0	1	0	1	0	0	1	1	0	0	0	4260
5000	0	0	1	0	1	0	0	1	0	0	0	0	4220
5100	0	0	1	0	1	0	1	1	0	0	0	0	4230
5200	0	0	1	0	1	0	1	0	0	0	0	0	4210
5300	0	0	1	0	1	1	1	0	0	0	0	0	4610
5400	0	0	1	0	1	1	1	1	0	0	0	0	4630
5500	0	0	1	0	1	1	0	1	0	0	0	0	4620
5600	0	0	1	0	1	1	0	1	1	0	0	0	4660
5700	0	0	1	0	1	1	0	0	1	0	0	0	4640
5800	0	0	1	0	0	1	0	0	1	0	0	0	4440
5900	0	0	1	0	0	1	0	1	1	0	0	0	4460
6000	0	0	1	0	0	1	0	1	0	0	0	0	4420
6100	0	0	1	0	0	1	1	1	0	0	0	0	4430
6200	0	0	1	0	0	1	1	0	0	0	0	0	4410
6300	0	0	1	0	0	0	1	0	0	0	0	0	4010
6400	0	0	1	0	0	0	1	1	0	0	0	0	4030
6500	0	0	1	0	0	0	0	1	0	0	0	0	4020
6600	0	0	1	0	0	0	0	1	1	0	0	0	4060
6700	0	0	1	0	0	0	0	0	1	0	0	0	4040
6800	0	1	1	0	0	0	0	0	1	0	0	0	6040
6900	0	1	1	0	0	0	0	1	1	0	0	0	6060
7000	0	1	1	0	0	0	0	1	0	0	0	0	6020
7100	0	1	1	0	0	0	1	1	0	0	0	0	6030
7200	0	1	1	0	0	0	1	0	0	0	0	0	6010
7300	0	1	1	0	0	1	1	0	0	0	0	0	6410
7400	0	1	1	0	0	1	1	1	0	0	0	0	6430
7500	0	1	1	0	0	1	0	1	0	0	0	0	6420
7600	0	1	1	0	0	1	0	1	1	0	0	0	6460
7700	0	1	1	0	0	1	0	0	1	0	0	0	6440
7800	0	1	1	0	1	1	0	0	1	0	0	0	6640
7900	0	1	1	0	1	1	0	1	1	0	0	0	6660
8000	0	1	1	0	1	1	0	1	0	0	0	0	6620
8100	0	1	1	0	1	1	1	1	0	0	0	0	6630
8200	0	1	1	0	1	1	1	0	0	0	0	0	6610
8300	0	1	1	0	1	0	1	0	0	0	0	0	6210
8400	0	1	1	0	1	0	1	1	0	0	0	0	6230
8500	0	1	1	0	1	0	0	1	0	0	0	0	6220
8600	0	1	1	0	1	0	0	1	1	0	0	0	6260
8700	0	1	1	0	1	0	0	0	1	0	0	0	6240
8800	0	1	1	1	1	0	0	0	1	0	0	0	6340
8900	0	1	1	1	1	0	0	1	1	0	0	0	6360
9000	0	1	1	1	1	0	0	1	0	0	0	0	6320
9100	0	1	1	1	1	0	1	1	0	0	0	0	6330
9200	0	1	1	1	1	0	1	0	0	0	0	0	6310
9300	0	1	1	1	1	1	1	0	0	0	0	0	6710
9400	0	1	1	1	1	1	1	1	0	0	0	0	6730
9500	0	1	1	1	1	1	0	1	0	0	0	0	6720
9600	0	1	1	1	1	1	0	1	1	0	0	0	6760
9700	0	1	1	1	1	1	0	0	1	0	0	0	6740
9800	0	1	1	1	0	1	0	0	1	0	0	0	6540
9900	0	1	1	1	0	1	0	1	1	0	0	0	6560
10000	0	1	1	1	0	1	0	1	0	0	0	0	6520
10100	0	1	1	1	0	1	1	1	0	0	0	0	6530
10200	0	1	1	1	0	1	1	0	0	0	0	0	6510
10300	0	1	1	1	0	0	1	0	0	0	0	0	6110
10400	0	1	1	1	0	0	1	1	0	0	0	0	6130
10500	0	1	1	1	0	0	0	1	0	0	0	0	6120
10600	0	1	1	1	0	0	0	1	1	0	0	0	6160

10700	0	1	1	1	0	0	0	0	1	0	0	0	6140
10800	0	1	0	1	0	0	0	0	1	0	0	0	2140
10900	0	1	0	1	0	0	0	1	1	0	0	0	2160
11000	0	1	0	1	0	0	0	1	0	0	0	0	2120
11100	0	1	0	1	0	0	1	1	0	0	0	0	2130
11200	0	1	0	1	0	0	1	0	0	0	0	0	2110
11300	0	1	0	1	0	1	1	0	0	0	0	0	2510
11400	0	1	0	1	0	1	1	1	0	0	0	0	2530
11500	0	1	0	1	0	1	0	1	0	0	0	0	2520
11600	0	1	0	1	0	1	0	1	1	0	0	0	2560
11700	0	1	0	1	0	1	0	0	1	0	0	0	2540
11800	0	1	0	1	1	1	0	0	1	0	0	0	2740
11900	0	1	0	1	1	1	0	1	1	0	0	0	2760
12000	0	1	0	1	1	1	0	1	0	0	0	0	2720
12100	0	1	0	1	1	1	1	1	0	0	0	0	2730
12200	0	1	0	1	1	1	1	0	0	0	0	0	2710
12300	0	1	0	1	1	0	1	0	0	0	0	0	2310
12400	0	1	0	1	1	0	1	1	0	0	0	0	2330
12500	0	1	0	1	1	0	0	1	0	0	0	0	2320
12600	0	1	0	1	1	0	0	1	1	0	0	0	2360
12700	0	1	0	1	1	0	0	0	1	0	0	0	2340
12800	0	1	0	0	1	0	0	0	1	0	0	0	2240
12900	0	1	0	0	1	0	0	1	1	0	0	0	2260
13000	0	1	0	0	1	0	0	1	0	0	0	0	2220
13100	0	1	0	0	1	0	1	1	0	0	0	0	2230
13200	0	1	0	0	1	0	1	0	0	0	0	0	2210
13300	0	1	0	0	1	1	1	0	0	0	0	0	2610
13400	0	1	0	0	1	1	1	1	0	0	0	0	2630
13500	0	1	0	0	1	1	0	1	0	0	0	0	2620
13600	0	1	0	0	1	1	0	1	1	0	0	0	2660
13700	0	1	0	0	1	1	0	0	1	0	0	0	2640
13800	0	1	0	0	0	1	0	0	1	0	0	0	2440
13900	0	1	0	0	0	1	0	1	1	0	0	0	2460
14000	0	1	0	0	0	1	0	1	0	0	0	0	2420
14100	0	1	0	0	0	1	1	1	0	0	0	0	2430
14200	0	1	0	0	0	1	1	0	0	0	0	0	2410
14300	0	1	0	0	0	0	1	0	0	0	0	0	2010
14400	0	1	0	0	0	0	1	1	0	0	0	0	2030
14500	0	1	0	0	0	0	0	1	0	0	0	0	2020
14600	0	1	0	0	0	0	0	1	1	0	0	0	2060
14700	0	1	0	0	0	0	0	0	1	0	0	0	2040
14800	1	1	0	0	0	0	0	0	1	0	0	0	3040
14900	1	1	0	0	0	0	0	1	1	0	0	0	3060
15000	1	1	0	0	0	0	0	1	0	0	0	0	3020
15100	1	1	0	0	0	0	1	1	0	0	0	0	3030
15200	1	1	0	0	0	0	1	0	0	0	0	0	3010
15300	1	1	0	0	0	1	1	0	0	0	0	0	3410
15400	1	1	0	0	0	1	1	1	0	0	0	0	3430
15500	1	1	0	0	0	1	0	1	0	0	0	0	3420
15600	1	1	0	0	0	1	0	1	1	0	0	0	3460
15700	1	1	0	0	0	1	0	0	1	0	0	0	3440
15800	1	1	0	0	1	1	0	0	1	0	0	0	3640
15900	1	1	0	0	1	1	0	1	1	0	0	0	3660
16000	1	1	0	0	1	1	0	1	0	0	0	0	3620
16100	1	1	0	0	1	1	1	1	0	0	0	0	3630
16200	1	1	0	0	1	1	1	0	0	0	0	0	3610
16300	1	1	0	0	1	0	1	0	0	0	0	0	3210
16400	1	1	0	0	1	0	1	1	0	0	0	0	3230
16500	1	1	0	0	1	0	0	1	0	0	0	0	3220
16600	1	1	0	0	1	0	0	1	1	0	0	0	3260
16700	1	1	0	0	1	0	0	0	1	0	0	0	3240
16800	1	1	0	1	1	0	0	0	1	0	0	0	3340
16900	1	1	0	1	1	0	0	1	1	0	0	0	3360



17000	1	1	0	1	1	0	0	1	0	0	0	0	3320
17100	1	1	0	1	1	0	1	1	0	0	0	0	3330
17200	1	1	0	1	1	0	1	0	0	0	0	0	3310
17300	1	1	0	1	1	1	1	0	0	0	0	0	3710
17400	1	1	0	1	1	1	1	1	0	0	0	0	3730
17500	1	1	0	1	1	1	0	1	0	0	0	0	3720
17600	1	1	0	1	1	1	0	1	1	0	0	0	3760
17700	1	1	0	1	1	1	0	0	1	0	0	0	3740
17800	1	1	0	1	0	1	0	0	1	0	0	0	3540
17900	1	1	0	1	0	1	0	1	1	0	0	0	3560
18000	1	1	0	1	0	1	0	1	0	0	0	0	3520
18100	1	1	0	1	0	1	1	1	0	0	0	0	3530
18200	1	1	0	1	0	1	1	0	0	0	0	0	3510
18300	1	1	0	1	0	0	1	0	0	0	0	0	3110
18400	1	1	0	1	0	0	1	1	0	0	0	0	3130
18500	1	1	0	1	0	0	0	1	0	0	0	0	3120
18600	1	1	0	1	0	0	0	1	1	0	0	0	3160
18700	1	1	0	1	0	0	0	0	1	0	0	0	3140
18800	1	1	1	1	0	0	0	0	1	0	0	0	7140
18900	1	1	1	1	0	0	0	1	1	0	0	0	7160
19000	1	1	1	1	0	0	0	1	0	0	0	0	7120
19100	1	1	1	1	0	0	1	1	0	0	0	0	7130
19200	1	1	1	1	0	0	1	0	0	0	0	0	7110
19300	1	1	1	1	0	1	1	0	0	0	0	0	7510
19400	1	1	1	1	0	1	1	1	0	0	0	0	7530
19500	1	1	1	1	0	1	0	1	0	0	0	0	7520
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19700	1	1	1	1	0	1	0	0	1	0	0	0	7540
19800	1	1	1	1	1	1	0	0	1	0	0	0	7740
19900	1	1	1	1	1	1	0	1	1	0	0	0	7760
20000	1	1	1	1	1	1	0	1	0	0	0	0	7720
20100	1	1	1	1	1	1	1	1	0	0	0	0	7730
20200	1	1	1	1	1	1	1	0	0	0	0	0	7710
20300	1	1	1	1	1	0	1	0	0	0	0	0	7310
20400	1	1	1	1	1	0	1	1	0	0	0	0	7330
20500	1	1	1	1	1	0	0	1	0	0	0	0	7320
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20700	1	1	1	1	1	0	0	0	1	0	0	0	7340
20800	1	1	1	0	1	0	0	0	1	0	0	0	7240
20900	1	1	1	0	1	0	0	1	1	0	0	0	7260
21000	1	1	1	0	1	0	0	1	0	0	0	0	7220
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21200	1	1	1	0	1	0	1	0	0	0	0	0	7210
21300	1	1	1	0	1	1	1	0	0	0	0	0	7610
21400	1	1	1	0	1	1	1	1	0	0	0	0	7630
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21700	1	1	1	0	1	1	0	0	1	0	0	0	7640
21800	1	1	1	0	0	1	0	0	1	0	0	0	7440
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22000	1	1	1	0	0	1	0	1	0	0	0	0	7420
22100	1	1	1	0	0	1	1	1	0	0	0	0	7430
22200	1	1	1	0	0	1	1	0	0	0	0	0	7410
22300	1	1	1	0	0	0	1	0	0	0	0	0	7010
22400	1	1	1	0	0	0	1	1	0	0	0	0	7030
22500	1	1	1	0	0	0	0	1	0	0	0	0	7020
22600	1	1	1	0	0	0	0	1	1	0	0	0	7060
22700	1	1	1	0	0	0	0	0	1	0	0	0	7040
22800	1	0	1	0	0	0	0	0	1	0	0	0	5040
22900	1	0	1	0	0	0	0	1	1	0	0	0	5060
23000	1	0	1	0	0	0	0	1	0	0	0	0	5020
23100	1	0	1	0	0	0	1	1	0	0	0	0	5030
23200	1	0	1	0	0	0	1	0	0	0	0	0	5010

23300	1	0	1	0	0	1	1	0	0	0	0	0	5410
23400	1	0	1	0	0	1	1	1	0	0	0	0	5430
23500	1	0	1	0	0	1	0	1	0	0	0	0	5420
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23700	1	0	1	0	0	1	0	0	1	0	0	0	5440
23800	1	0	1	0	1	1	0	0	1	0	0	0	5640
23900	1	0	1	0	1	1	0	1	1	0	0	0	5660
24000	1	0	1	0	1	1	0	1	0	0	0	0	5620
24100	1	0	1	0	1	1	1	1	0	0	0	0	5630
24200	1	0	1	0	1	1	1	0	0	0	0	0	5610
24300	1	0	1	0	1	0	1	0	0	0	0	0	5210
24400	1	0	1	0	1	0	1	1	0	0	0	0	5230
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24700	1	0	1	0	1	0	0	0	1	0	0	0	5240
24800	1	0	1	1	1	0	0	0	1	0	0	0	5340
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25000	1	0	1	1	1	0	0	1	0	0	0	0	5320
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25200	1	0	1	1	1	0	1	0	0	0	0	0	5310
25300	1	0	1	1	1	1	1	0	0	0	0	0	5710
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25600	1	0	1	1	1	1	0	1	1	0	0	0	5760
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26000	1	0	1	1	0	1	0	1	0	0	0	0	5520
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26200	1	0	1	1	0	1	1	0	0	0	0	0	5510
26300	1	0	1	1	0	0	1	0	0	0	0	0	5110
26400	1	0	1	1	0	0	1	1	0	0	0	0	5130
26500	1	0	1	1	0	0	0	1	0	0	0	0	5120
26600	1	0	1	1	0	0	0	1	1	0	0	0	5160
26700	1	0	1	1	0	0	0	0	1	0	0	0	5140
26800	1	0	0	1	0	0	0	0	1	0	0	0	1140
26900	1	0	0	1	0	0	0	1	1	0	0	0	1160
27000	1	0	0	1	0	0	0	1	0	0	0	0	1120
27100	1	0	0	1	0	0	1	1	0	0	0	0	1130
27200	1	0	0	1	0	0	1	0	0	0	0	0	1110
27300	1	0	0	1	0	1	1	0	0	0	0	0	1510
27400	1	0	0	1	0	1	1	1	0	0	0	0	1530
27500	1	0	0	1	0	1	0	1	0	0	0	0	1520
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28000	1	0	0	1	1	1	0	1	0	0	0	0	1720
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28200	1	0	0	1	1	1	1	0	0	0	0	0	1710
28300	1	0	0	1	1	0	1	0	0	0	0	0	1310
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29000	1	0	0	0	1	0	0	1	0	0	0	0	1220
29100	1	0	0	0	1	0	1	1	0	0	0	0	1230
29200	1	0	0	0	1	0	1	0	0	0	0	0	1210
29300	1	0	0	0	1	1	1	0	0	0	0	0	1610
29400	1	0	0	0	1	1	1	1	0	0	0	0	1630
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29600	1	0	0	0	1	1	0	1	1	0	0	0	1660
29700	1	0	0	0	1	1	0	0	1	0	0	0	1640
29800	1	0	0	0	0	1	0	0	1	0	0	0	1440
29900	1	0	0	0	0	1	0	1	1	0	0	0	1460
30000	1	0	0	0	0	1	0	1	0	0	0	0	1420
30100	1	0	0	0	0	1	1	1	0	0	0	0	1430
30200	1	0	0	0	0	1	1	0	0	0	0	0	1410
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30500	1	0	0	0	0	0	0	1	0	0	0	0	1020
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30700	1	0	0	0	0	0	0	0	1	0	0	0	1040
30800	1	0	0	0	0	0	0	0	1	0	0	1	1044
30900	1	0	0	0	0	0	0	1	1	0	0	1	1064
31000	1	0	0	0	0	0	0	1	0	0	0	1	1024
31100	1	0	0	0	0	0	1	1	0	0	0	1	1034
31200	1	0	0	0	0	0	1	0	0	0	0	1	1014
31300	1	0	0	0	0	1	1	0	0	0	0	1	1414
31400	1	0	0	0	0	1	1	1	0	0	0	1	1434
31500	1	0	0	0	0	1	0	1	0	0	0	1	1424
31600	1	0	0	0	0	1	0	1	1	0	0	1	1464
31700	1	0	0	0	0	1	0	0	1	0	0	1	1444
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31900	1	0	0	0	1	1	0	1	1	0	0	1	1664
32000	1	0	0	0	1	1	0	1	0	0	0	1	1624
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32200	1	0	0	0	1	1	1	0	0	0	0	1	1614
32300	1	0	0	0	1	0	1	0	0	0	0	1	1214
32400	1	0	0	0	1	0	1	1	0	0	0	1	1234
32500	1	0	0	0	1	0	0	1	0	0	0	1	1224
32600	1	0	0	0	1	0	0	1	1	0	0	1	1264
32700	1	0	0	0	1	0	0	0	1	0	0	1	1244
32800	1	0	0	1	1	0	0	0	1	0	0	1	1344
32900	1	0	0	1	1	0	0	1	1	0	0	1	1364
33000	1	0	0	1	1	0	0	1	0	0	0	1	1324
33100	1	0	0	1	1	0	1	1	0	0	0	1	1334
33200	1	0	0	1	1	0	1	0	0	0	0	1	1314
33300	1	0	0	1	1	1	1	0	0	0	0	1	1714
33400	1	0	0	1	1	1	1	1	0	0	0	1	1734
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33600	1	0	0	1	1	1	0	1	1	0	0	1	1764
33700	1	0	0	1	1	1	0	0	1	0	0	1	1744
33800	1	0	0	1	0	1	0	0	1	0	0	1	1544
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34100	1	0	0	1	0	1	1	1	0	0	0	1	1534
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34400	1	0	0	1	0	0	1	1	0	0	0	1	1134
34500	1	0	0	1	0	0	0	1	0	0	0	1	1124
34600	1	0	0	1	0	0	0	1	1	0	0	1	1164
34700	1	0	0	1	0	0	0	0	1	0	0	1	1144
34800	1	0	1	1	0	0	0	0	1	0	0	1	5144
34900	1	0	1	1	0	0	0	1	1	0	0	1	5164
35000	1	0	1	1	0	0	0	1	0	0	0	1	5124
35100	1	0	1	1	0	0	1	1	0	0	0	1	5134
35200	1	0	1	1	0	0	1	0	0	0	0	1	5114
35300	1	0	1	1	0	1	1	0	0	0	0	1	5514
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35600	1	0	1	1	0	1	0	1	1	0	0	1	5564
35700	1	0	1	1	0	1	0	0	1	0	0	1	5544
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35900	1	0	1	1	1	1	0	1	1	0	0	1	5764
36000	1	0	1	1	1	1	0	1	0	0	0	1	5724
36100	1	0	1	1	1	1	1	1	0	0	0	1	5734
36200	1	0	1	1	1	1	1	0	0	0	0	1	5714
36300	1	0	1	1	1	0	1	0	0	0	0	1	5314
36400	1	0	1	1	1	0	1	1	0	0	0	1	5334
36500	1	0	1	1	1	0	0	1	0	0	0	1	5324
36600	1	0	1	1	1	0	0	1	1	0	0	1	5364
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36900	1	0	1	0	1	0	0	1	1	0	0	1	5264
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37100	1	0	1	0	1	0	1	1	0	0	0	1	5234
37200	1	0	1	0	1	0	1	0	0	0	0	1	5214
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37600	1	0	1	0	1	1	0	1	1	0	0	1	5664
37700	1	0	1	0	1	1	0	0	1	0	0	1	5644
37800	1	0	1	0	0	1	0	0	1	0	0	1	5444
37900	1	0	1	0	0	1	0	1	1	0	0	1	5464
38000	1	0	1	0	0	1	0	1	0	0	0	1	5424
38100	1	0	1	0	0	1	1	1	0	0	0	1	5434
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38300	1	0	1	0	0	0	1	0	0	0	0	1	5014
38400	1	0	1	0	0	0	1	1	0	0	0	1	5034
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38600	1	0	1	0	0	0	0	1	1	0	0	1	5064
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38800	1	1	1	0	0	0	0	0	1	0	0	1	7044
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39200	1	1	1	0	0	0	1	0	0	0	0	1	7014
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39400	1	1	1	0	0	1	1	1	0	0	0	1	7434
39500	1	1	1	0	0	1	0	1	0	0	0	1	7424
39600	1	1	1	0	0	1	0	1	1	0	0	1	7464
39700	1	1	1	0	0	1	0	0	1	0	0	1	7444
39800	1	1	1	0	1	1	0	0	1	0	0	1	7644
39900	1	1	1	0	1	1	0	1	1	0	0	1	7664
40000	1	1	1	0	1	1	0	1	0	0	0	1	7624
40100	1	1	1	0	1	1	1	1	0	0	0	1	7634
40200	1	1	1	0	1	1	1	0	0	0	0	1	7614
40300	1	1	1	0	1	0	1	0	0	0	0	1	7214
40400	1	1	1	0	1	0	1	1	0	0	0	1	7234
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40900	1	1	1	1	1	0	0	1	1	0	0	1	7364
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41100	1	1	1	1	1	0	1	1	0	0	0	1	7334
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41300	1	1	1	1	1	1	1	0	0	0	0	1	7714
41400	1	1	1	1	1	1	1	1	0	0	0	1	7734
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41600	1	1	1	1	1	1	0	1	1	0	0	1	7764
41700	1	1	1	1	1	1	0	0	1	0	0	1	7744
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41900	1	1	1	1	0	1	0	1	1	0	0	1	7564
42000	1	1	1	1	0	1	0	1	0	0	0	1	7524
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42200	1	1	1	1	0	1	1	0	0	0	0	1	7514
42300	1	1	1	1	0	0	1	0	0	0	0	1	7114
42400	1	1	1	1	0	0	1	1	0	0	0	1	7134
42500	1	1	1	1	0	0	0	1	0	0	0	1	7124
42600	1	1	1	1	0	0	0	1	1	0	0	1	7164
42700	1	1	1	1	0	0	0	0	1	0	0	1	7144
42800	1	1	0	1	0	0	0	0	1	0	0	1	3144
42900	1	1	0	1	0	0	0	1	1	0	0	1	3164
43000	1	1	0	1	0	0	0	1	0	0	0	1	3124
43100	1	1	0	1	0	0	1	1	0	0	0	1	3134
43200	1	1	0	1	0	0	1	0	0	0	0	1	3114
43300	1	1	0	1	0	1	1	1	0	0	0	1	3514
43400	1	1	0	1	0	1	1	1	0	0	0	1	3534
43500	1	1	0	1	0	1	0	1	0	0	0	1	3524
43600	1	1	0	1	0	1	0	1	1	0	0	1	3564
43700	1	1	0	1	0	1	0	0	1	0	0	1	3544
43800	1	1	0	1	1	1	0	0	1	0	0	1	3744
43900	1	1	0	1	1	1	0	1	1	0	0	1	3764
44000	1	1	0	1	1	1	0	1	0	0	0	1	3724
44100	1	1	0	1	1	1	1	1	0	0	0	1	3734
44200	1	1	0	1	1	1	1	0	0	0	0	1	3714
44300	1	1	0	1	1	0	1	0	0	0	0	1	3314
44400	1	1	0	1	1	0	1	1	0	0	0	1	3334
44500	1	1	0	1	1	0	0	1	0	0	0	1	3324
44600	1	1	0	1	1	0	0	1	1	0	0	1	3364
44700	1	1	0	1	1	0	0	0	1	0	0	1	3344
44800	1	1	0	0	1	0	0	0	1	0	0	1	3244
44900	1	1	0	0	1	0	0	1	1	0	0	1	3264
45000	1	1	0	0	1	0	0	1	0	0	0	1	3224
45100	1	1	0	0	1	0	1	1	0	0	0	1	3234
45200	1	1	0	0	1	0	1	0	0	0	0	1	3214
45300	1	1	0	0	1	1	1	0	0	0	0	1	3614
45400	1	1	0	0	1	1	1	1	0	0	0	1	3634
45500	1	1	0	0	1	1	0	1	0	0	0	1	3624
45600	1	1	0	0	1	1	0	1	1	0	0	1	3664
45700	1	1	0	0	1	1	0	0	1	0	0	1	3644
45800	1	1	0	0	0	1	0	0	1	0	0	1	3444
45900	1	1	0	0	0	1	0	1	1	0	0	1	3464
46000	1	1	0	0	0	1	0	1	0	0	0	1	3424
46100	1	1	0	0	0	1	1	1	0	0	0	1	3434
46200	1	1	0	0	0	1	1	0	0	0	0	1	3414
46300	1	1	0	0	0	0	1	0	0	0	0	1	3014
46400	1	1	0	0	0	0	1	1	0	0	0	1	3034
46500	1	1	0	0	0	0	0	1	0	0	0	1	3024
46600	1	1	0	0	0	0	0	1	1	0	0	1	3064
46700	1	1	0	0	0	0	0	0	1	0	0	1	3044
46800	0	1	0	0	0	0	0	0	1	0	0	1	2044
46900	0	1	0	0	0	0	0	1	1	0	0	1	2064
47000	0	1	0	0	0	0	0	1	0	0	0	1	2024
47100	0	1	0	0	0	0	1	1	0	0	0	1	2034
47200	0	1	0	0	0	0	1	0	0	0	0	1	2014
47300	0	1	0	0	0	1	1	0	0	0	0	1	2414
47400	0	1	0	0	0	1	1	1	0	0	0	1	2434
47500	0	1	0	0	0	1	0	1	0	0	0	1	2424
47600	0	1	0	0	0	1	0	1	1	0	0	1	2464
47700	0	1	0	0	0	1	0	0	1	0	0	1	2444
47800	0	1	0	0	1	1	0	0	1	0	0	1	2644
47900	0	1	0	0	1	1	0	1	1	0	0	1	2664
48000	0	1	0	0	1	1	0	1	0	0	0	1	2624
48100	0	1	0	0	1	1	1	1	0	0	0	1	2634
48200	0	1	0	0	1	1	1	0	0	0	0	1	2614
48300	0	1	0	0	1	0	1	0	0	0	0	1	2214
48400	0	1	0	0	1	0	1	1	0	0	0	1	2234

48500	0	1	0	0	1	0	0	1	0	0	0	1	2224
48600	0	1	0	0	1	0	0	1	1	0	0	1	2264
48700	0	1	0	0	1	0	0	0	1	0	0	1	2244
48800	0	1	0	1	1	0	0	0	1	0	0	1	2344
48900	0	1	0	1	1	0	0	1	1	0	0	1	2364
49000	0	1	0	1	1	0	0	1	0	0	0	1	2324
49100	0	1	0	1	1	0	1	1	0	0	0	1	2334
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49400	0	1	0	1	1	1	1	1	0	0	0	1	2734
49500	0	1	0	1	1	1	0	1	0	0	0	1	2724
49600	0	1	0	1	1	1	0	1	1	0	0	1	2764
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49800	0	1	0	1	0	1	0	0	1	0	0	1	2544
49900	0	1	0	1	0	1	0	1	1	0	0	1	2564
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50100	0	1	0	1	0	1	1	1	0	0	0	1	2534
50200	0	1	0	1	0	1	1	0	0	0	0	1	2514
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50400	0	1	0	1	0	0	1	1	0	0	0	1	2134
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51000	0	1	1	1	0	0	0	1	0	0	0	1	6124
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51600	0	1	1	1	0	1	0	1	1	0	0	1	6564
51700	0	1	1	1	0	1	0	0	1	0	0	1	6544
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52000	0	1	1	1	1	1	0	1	0	0	0	1	6724
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52400	0	1	1	1	1	0	1	1	0	0	0	1	6334
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53000	0	1	1	0	1	0	0	1	0	0	0	1	6224
53100	0	1	1	0	1	0	1	1	0	0	0	1	6234
53200	0	1	1	0	1	0	1	0	0	0	0	1	6214
53300	0	1	1	0	1	1	1	0	0	0	0	1	6614
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53600	0	1	1	0	1	1	0	1	1	0	0	1	6664
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54300	0	1	1	0	0	0	1	0	0	0	0	1	6014
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54500	0	1	1	0	0	0	0	1	0	0	0	1	6024
54600	0	1	1	0	0	0	0	1	1	0	0	1	6064
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55000	0	0	1	0	0	0	0	1	0	0	0	1	4024
55100	0	0	1	0	0	0	1	1	0	0	0	1	4034
55200	0	0	1	0	0	0	1	0	0	0	0	1	4014
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55600	0	0	1	0	0	1	0	1	1	0	0	1	4464
55700	0	0	1	0	0	1	0	0	1	0	0	1	4444
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56000	0	0	1	0	1	1	0	1	0	0	0	1	4624
56100	0	0	1	0	1	1	1	1	0	0	0	1	4634
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56800	0	0	1	1	1	0	0	0	1	0	0	1	4344
56900	0	0	1	1	1	0	0	1	1	0	0	1	4364
57000	0	0	1	1	1	0	0	1	0	0	0	1	4324
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57600	0	0	1	1	1	1	0	1	1	0	0	1	4764
57700	0	0	1	1	1	1	0	0	1	0	0	1	4744
57800	0	0	1	1	0	1	0	0	1	0	0	1	4544
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58000	0	0	1	1	0	1	0	1	0	0	0	1	4524
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58200	0	0	1	1	0	1	1	0	0	0	0	1	4514
58300	0	0	1	1	0	0	1	0	0	0	0	1	4114
58400	0	0	1	1	0	0	1	1	0	0	0	1	4134
58500	0	0	1	1	0	0	0	1	0	0	0	1	4124
58600	0	0	1	1	0	0	0	1	1	0	0	1	4164
58700	0	0	1	1	0	0	0	0	1	0	0	1	4144
58800	0	0	0	1	0	0	0	0	1	0	0	1	0144
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59000	0	0	0	1	0	0	0	1	0	0	0	1	0124
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59600	0	0	0	1	0	1	0	1	1	0	0	1	0564
59700	0	0	0	1	0	1	0	0	1	0	0	1	0544
59800	0	0	0	1	1	1	0	0	1	0	0	1	0744
59900	0	0	0	1	1	1	0	1	1	0	0	1	0764
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60100	0	0	0	1	1	1	1	1	0	0	0	1	0734
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60400	0	0	0	1	1	0	1	1	0	0	0	1	0334
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60900	0	0	0	0	1	0	0	1	1	0	0	1	0264
61000	0	0	0	0	1	0	0	1	0	0	0	1	0224

61100	0	0	0	0	1	0	1	1	0	0	0	1	0234
61200	0	0	0	0	1	0	1	0	0	0	0	1	0214
61300	0	0	0	0	1	1	1	0	0	0	0	1	0614
61400	0	0	0	0	1	1	1	1	0	0	0	1	0634
61500	0	0	0	0	1	1	0	1	0	0	0	1	0624
61600	0	0	0	0	1	1	0	1	1	0	0	1	0664
61700	0	0	0	0	1	1	0	0	1	0	0	1	0644
61800	0	0	0	0	0	1	0	0	1	0	0	1	0444
61900	0	0	0	0	0	1	0	1	1	0	0	1	0464
62000	0	0	0	0	0	1	0	1	0	0	0	1	0424
62100	0	0	0	0	0	1	1	1	0	0	0	1	0434
62200	0	0	0	0	0	1	1	0	0	0	0	1	0414
62300	0	0	0	0	0	0	1	0	0	0	0	1	0014
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62600	0	0	0	0	0	0	0	1	1	0	0	1	0064
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62900	0	0	0	0	0	0	0	1	1	0	1	1	0066
63000	0	0	0	0	0	0	0	1	0	0	1	1	0026
63100	0	0	0	0	0	0	1	1	0	0	1	1	0036
63200	0	0	0	0	0	0	1	0	0	0	1	1	0016
63300	0	0	0	0	0	1	1	0	0	0	1	1	0416
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63800	0	0	0	0	1	1	0	0	1	0	1	1	0646
63900	0	0	0	0	1	1	0	1	1	0	1	1	0666
64000	0	0	0	0	1	1	0	1	0	0	1	1	0626
64100	0	0	0	0	1	1	1	1	0	0	1	1	0636
64200	0	0	0	0	1	1	1	0	0	0	1	1	0616
64300	0	0	0	0	1	0	1	0	0	0	1	1	0216
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64900	0	0	0	1	1	0	0	1	1	0	1	1	0366
65000	0	0	0	1	1	0	0	1	0	0	1	1	0326
65100	0	0	0	1	1	0	1	1	0	0	1	1	0336
65200	0	0	0	1	1	0	1	0	0	0	1	1	0316
65300	0	0	0	1	1	1	1	0	0	0	1	1	0716
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66000	0	0	0	1	0	1	0	1	0	0	1	1	0526
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66600	0	0	0	1	0	0	0	1	1	0	1	1	0166
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66800	0	0	1	1	0	0	0	0	1	0	1	1	4146
66900	0	0	1	1	0	0	0	1	1	0	1	1	4166
67000	0	0	1	1	0	0	0	1	0	0	1	1	4126
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67200	0	0	1	1	0	0	1	0	0	0	1	1	4116
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67400	0	0	1	1	0	1	1	1	0	0	1	1	4536
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67700	0	0	1	1	0	1	0	0	1	0	1	1	4546
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67900	0	0	1	1	1	1	0	1	1	0	1	1	4766
68000	0	0	1	1	1	1	0	1	0	0	1	1	4726
68100	0	0	1	1	1	1	1	1	0	0	1	1	4736
68200	0	0	1	1	1	1	1	0	0	0	1	1	4716
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68600	0	0	1	1	1	0	0	1	1	0	1	1	4366
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68900	0	0	1	0	1	0	0	1	1	0	1	1	4266
69000	0	0	1	0	1	0	0	1	0	0	1	1	4226
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69200	0	0	1	0	1	0	1	0	0	0	1	1	4216
69300	0	0	1	0	1	1	1	0	0	0	1	1	4616
69400	0	0	1	0	1	1	1	1	0	0	1	1	4636
69500	0	0	1	0	1	1	0	1	0	0	1	1	4626
69600	0	0	1	0	1	1	0	1	1	0	1	1	4666
69700	0	0	1	0	1	1	0	0	1	0	1	1	4646
69800	0	0	1	0	0	1	0	0	1	0	1	1	4446
69900	0	0	1	0	0	1	0	1	1	0	1	1	4466
70000	0	0	1	0	0	1	0	1	0	0	1	1	4426
70100	0	0	1	0	0	1	1	1	0	0	1	1	4436
70200	0	0	1	0	0	1	1	0	0	0	1	1	4416
70300	0	0	1	0	0	0	1	0	0	0	1	1	4016
70400	0	0	1	0	0	0	1	1	0	0	1	1	4036
70500	0	0	1	0	0	0	0	1	0	0	1	1	4026
70600	0	0	1	0	0	0	0	1	1	0	1	1	4066
70700	0	0	1	0	0	0	0	0	1	0	1	1	4046
70800	0	1	1	0	0	0	0	0	1	0	1	1	6046
70900	0	1	1	0	0	0	0	1	1	0	1	1	6066
71000	0	1	1	0	0	0	0	1	0	0	1	1	6026
71100	0	1	1	0	0	0	1	1	0	0	1	1	6036
71200	0	1	1	0	0	0	1	0	0	0	1	1	6016
71300	0	1	1	0	0	1	1	0	0	0	1	1	6416
71400	0	1	1	0	0	1	1	1	0	0	1	1	6436
71500	0	1	1	0	0	1	0	1	0	0	1	1	6426
71600	0	1	1	0	0	1	0	1	1	0	1	1	6466
71700	0	1	1	0	0	1	0	0	1	0	1	1	6446
71800	0	1	1	0	1	1	0	0	1	0	1	1	6646
71900	0	1	1	0	1	1	0	1	1	0	1	1	6666
72000	0	1	1	0	1	1	0	1	0	0	1	1	6626
72100	0	1	1	0	1	1	1	1	0	0	1	1	6636
72200	0	1	1	0	1	1	1	0	0	0	1	1	6616
72300	0	1	1	0	1	0	1	0	0	0	1	1	6216
72400	0	1	1	0	1	0	1	1	0	0	1	1	6236
72500	0	1	1	0	1	0	0	1	0	0	1	1	6226
72600	0	1	1	0	1	0	0	1	1	0	1	1	6266
72700	0	1	1	0	1	0	0	0	1	0	1	1	6246
72800	0	1	1	1	1	0	0	0	1	0	1	1	6346
72900	0	1	1	1	1	0	0	1	1	0	1	1	6366
73000	0	1	1	1	1	0	0	1	0	0	1	1	6326
73100	0	1	1	1	1	0	1	1	0	0	1	1	6336
73200	0	1	1	1	1	0	1	0	0	0	1	1	6316
73300	0	1	1	1	1	1	1	0	0	0	1	1	6716
73400	0	1	1	1	1	1	1	1	0	0	1	1	6736
73500	0	1	1	1	1	1	0	1	0	0	1	1	6726
73600	0	1	1	1	1	1	0	1	1	0	1	1	6766

73700	0	1	1	1	1	1	0	0	1	0	1	1	6746
73800	0	1	1	1	0	1	0	0	1	0	1	1	6546
73900	0	1	1	1	0	1	0	1	1	0	1	1	6566
74000	0	1	1	1	0	1	0	1	0	0	1	1	6526
74100	0	1	1	1	0	1	1	1	0	0	1	1	6536
74200	0	1	1	1	0	1	1	0	0	0	1	1	6516
74300	0	1	1	1	0	0	1	0	0	0	1	1	6116
74400	0	1	1	1	0	0	1	1	0	0	1	1	6136
74500	0	1	1	1	0	0	0	1	0	0	1	1	6126
74600	0	1	1	1	0	0	0	1	1	0	1	1	6166
74700	0	1	1	1	0	0	0	0	1	0	1	1	6146
74800	0	1	0	1	0	0	0	0	1	0	1	1	2146
74900	0	1	0	1	0	0	0	1	1	0	1	1	2166
75000	0	1	0	1	0	0	0	1	0	0	1	1	2126
75100	0	1	0	1	0	0	1	1	0	0	1	1	2136
75200	0	1	0	1	0	0	1	0	0	0	1	1	2116
75300	0	1	0	1	0	1	1	0	0	0	1	1	2516
75400	0	1	0	1	0	1	1	1	0	0	1	1	2536
75500	0	1	0	1	0	1	0	1	0	0	1	1	2526
75600	0	1	0	1	0	1	0	1	1	0	1	1	2566
75700	0	1	0	1	0	1	0	0	1	0	1	1	2546
75800	0	1	0	1	1	1	0	0	1	0	1	1	2746
75900	0	1	0	1	1	1	0	1	1	0	1	1	2766
76000	0	1	0	1	1	1	0	1	0	0	1	1	2726
76100	0	1	0	1	1	1	1	1	0	0	1	1	2736
76200	0	1	0	1	1	1	1	0	0	0	1	1	2716
76300	0	1	0	1	1	0	1	0	0	0	1	1	2316
76400	0	1	0	1	1	0	1	1	0	0	1	1	2336
76500	0	1	0	1	1	0	0	1	0	0	1	1	2326
76600	0	1	0	1	1	0	0	1	1	0	1	1	2366
76700	0	1	0	1	1	0	0	0	1	0	1	1	2346
76800	0	1	0	0	1	0	0	0	1	0	1	1	2246
76900	0	1	0	0	1	0	0	1	1	0	1	1	2266
77000	0	1	0	0	1	0	0	1	0	0	1	1	2226
77100	0	1	0	0	1	0	1	1	0	0	1	1	2236
77200	0	1	0	0	1	0	1	0	0	0	1	1	2216
77300	0	1	0	0	1	1	1	0	0	0	1	1	2616
77400	0	1	0	0	1	1	1	1	0	0	1	1	2636
77500	0	1	0	0	1	1	0	1	0	0	1	1	2626
77600	0	1	0	0	1	1	0	1	1	0	1	1	2666
77700	0	1	0	0	1	1	0	0	1	0	1	1	2646
77800	0	1	0	0	0	1	0	0	1	0	1	1	2446
77900	0	1	0	0	0	1	0	1	1	0	1	1	2466
78000	0	1	0	0	0	1	0	1	0	0	1	1	2426
78100	0	1	0	0	0	1	1	1	0	0	1	1	2436
78200	0	1	0	0	0	1	1	0	0	0	1	1	2416
78300	0	1	0	0	0	0	1	0	0	0	1	1	2016
78400	0	1	0	0	0	0	1	1	0	0	1	1	2036
78500	0	1	0	0	0	0	0	1	0	0	1	1	2026
78600	0	1	0	0	0	0	0	1	1	0	1	1	2066
78700	0	1	0	0	0	0	0	0	1	0	1	1	2046
78800	1	1	0	0	0	0	0	0	1	0	1	1	3046
78900	1	1	0	0	0	0	0	1	1	0	1	1	3066
79000	1	1	0	0	0	0	0	1	0	0	1	1	3026
79100	1	1	0	0	0	0	1	1	0	0	1	1	3036
79200	1	1	0	0	0	0	1	0	0	0	1	1	3016
79300	1	1	0	0	0	1	1	0	0	0	1	1	3416
79400	1	1	0	0	0	1	1	1	0	0	1	1	3436
79500	1	1	0	0	0	1	0	1	0	0	1	1	3426
79600	1	1	0	0	0	1	0	1	1	0	1	1	3466
79700	1	1	0	0	0	1	0	0	1	0	1	1	3446
79800	1	1	0	0	1	1	0	0	1	0	1	1	3646
79900	1	1	0	0	1	1	0	1	1	0	1	1	3666

80000	1	1	0	0	1	1	0	1	0	0	1	1	3626
80100	1	1	0	0	1	1	1	1	0	0	1	1	3636
80200	1	1	0	0	1	1	1	0	0	0	1	1	3616
80300	1	1	0	0	1	0	1	0	0	0	1	1	3216
80400	1	1	0	0	1	0	1	1	0	0	1	1	3236
80500	1	1	0	0	1	0	0	1	0	0	1	1	3226
80600	1	1	0	0	1	0	0	1	1	0	1	1	3266
80700	1	1	0	0	1	0	0	0	1	0	1	1	3246
80800	1	1	0	1	1	0	0	0	1	0	1	1	3346
80900	1	1	0	1	1	0	0	1	1	0	1	1	3366
81000	1	1	0	1	1	0	0	1	0	0	1	1	3326
81100	1	1	0	1	1	0	1	1	0	0	1	1	3336
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81300	1	1	0	1	1	1	1	0	0	0	1	1	3716
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81500	1	1	0	1	1	1	0	1	0	0	1	1	3726
81600	1	1	0	1	1	1	0	1	1	0	1	1	3766
81700	1	1	0	1	1	1	0	0	1	0	1	1	3746
81800	1	1	0	1	0	1	0	0	1	0	1	1	3546
81900	1	1	0	1	0	1	0	1	1	0	1	1	3566
82000	1	1	0	1	0	1	0	1	0	0	1	1	3526
82100	1	1	0	1	0	1	1	1	0	0	1	1	3536
82200	1	1	0	1	0	1	1	0	0	0	1	1	3516
82300	1	1	0	1	0	0	1	0	0	0	1	1	3116
82400	1	1	0	1	0	0	1	1	0	0	1	1	3136
82500	1	1	0	1	0	0	0	1	0	0	1	1	3126
82600	1	1	0	1	0	0	0	1	1	0	1	1	3166
82700	1	1	0	1	0	0	0	0	1	0	1	1	3146
82800	1	1	1	1	0	0	0	0	1	0	1	1	7146
82900	1	1	1	1	0	0	0	1	1	0	1	1	7166
83000	1	1	1	1	0	0	0	1	0	0	1	1	7126
83100	1	1	1	1	0	0	1	1	0	0	1	1	7136
83200	1	1	1	1	0	0	1	0	0	0	1	1	7116
83300	1	1	1	1	0	1	1	0	0	0	1	1	7516
83400	1	1	1	1	0	1	1	1	0	0	1	1	7536
83500	1	1	1	1	0	1	0	1	0	0	1	1	7526
83600	1	1	1	1	0	1	0	1	1	0	1	1	7566
83700	1	1	1	1	0	1	0	0	1	0	1	1	7546
83800	1	1	1	1	1	1	0	0	1	0	1	1	7746
83900	1	1	1	1	1	1	0	1	1	0	1	1	7766
84000	1	1	1	1	1	1	0	1	0	0	1	1	7726
84100	1	1	1	1	1	1	1	1	0	0	1	1	7736
84200	1	1	1	1	1	1	1	0	0	0	1	1	7716
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84400	1	1	1	1	1	0	1	1	0	0	1	1	7336
84500	1	1	1	1	1	0	0	1	0	0	1	1	7326
84600	1	1	1	1	1	0	0	1	1	0	1	1	7366
84700	1	1	1	1	1	0	0	0	1	0	1	1	7346
84800	1	1	1	0	1	0	0	0	1	0	1	1	7246
84900	1	1	1	0	1	0	0	1	1	0	1	1	7266
85000	1	1	1	0	1	0	0	1	0	0	1	1	7226
85100	1	1	1	0	1	0	1	1	0	0	1	1	7236
85200	1	1	1	0	1	0	1	0	0	0	1	1	7216
85300	1	1	1	0	1	1	1	0	0	0	1	1	7616
85400	1	1	1	0	1	1	1	1	0	0	1	1	7636
85500	1	1	1	0	1	1	0	1	0	0	1	1	7626
85600	1	1	1	0	1	1	0	1	1	0	1	1	7666
85700	1	1	1	0	1	1	0	0	1	0	1	1	7646
85800	1	1	1	0	0	1	0	0	1	0	1	1	7446
85900	1	1	1	0	0	1	0	1	1	0	1	1	7466
86000	1	1	1	0	0	1	0	1	0	0	1	1	7426
86100	1	1	1	0	0	1	1	1	0	0	1	1	7436
86200	1	1	1	0	0	1	1	0	0	0	1	1	7416

86300	1	1	1	0	0	0	1	0	0	0	1	1	7016
86400	1	1	1	0	0	0	1	1	0	0	1	1	7036
86500	1	1	1	0	0	0	0	1	0	0	1	1	7026
86600	1	1	1	0	0	0	0	1	1	0	1	1	7066
86700	1	1	1	0	0	0	0	0	1	0	1	1	7046
86800	1	0	1	0	0	0	0	0	1	0	1	1	5046
86900	1	0	1	0	0	0	0	1	1	0	1	1	5066
87000	1	0	1	0	0	0	0	1	0	0	1	1	5026
87100	1	0	1	0	0	0	1	1	0	0	1	1	5036
87200	1	0	1	0	0	0	1	0	0	0	1	1	5016
87300	1	0	1	0	0	1	1	0	0	0	1	1	5416
87400	1	0	1	0	0	1	1	1	0	0	1	1	5436
87500	1	0	1	0	0	1	0	1	0	0	1	1	5426
87600	1	0	1	0	0	1	0	1	1	0	1	1	5466
87700	1	0	1	0	0	1	0	0	1	0	1	1	5446
87800	1	0	1	0	1	1	0	0	1	0	1	1	5646
87900	1	0	1	0	1	1	0	1	1	0	1	1	5666
88000	1	0	1	0	1	1	0	1	0	0	1	1	5626
88100	1	0	1	0	1	1	1	1	0	0	1	1	5636
88200	1	0	1	0	1	1	1	0	0	0	1	1	5616
88300	1	0	1	0	1	0	1	0	0	0	1	1	5216
88400	1	0	1	0	1	0	1	1	0	0	1	1	5236
88500	1	0	1	0	1	0	0	1	0	0	1	1	5226
88600	1	0	1	0	1	0	0	1	1	0	1	1	5266
88700	1	0	1	0	1	0	0	0	1	0	1	1	5246
88800	1	0	1	1	1	0	0	0	1	0	1	1	5346
88900	1	0	1	1	1	0	0	1	1	0	1	1	5366
89000	1	0	1	1	1	0	0	1	0	0	1	1	5326
89100	1	0	1	1	1	0	1	1	0	0	1	1	5336
89200	1	0	1	1	1	0	1	0	0	0	1	1	5316
89300	1	0	1	1	1	1	1	0	0	0	1	1	5716
89400	1	0	1	1	1	1	1	1	0	0	1	1	5736
89500	1	0	1	1	1	1	0	1	0	0	1	1	5726
89600	1	0	1	1	1	1	0	1	1	0	1	1	5766
89700	1	0	1	1	1	1	0	0	1	0	1	1	5746
89800	1	0	1	1	0	1	0	0	1	0	1	1	5546
89900	1	0	1	1	0	1	0	1	1	0	1	1	5566
90000	1	0	1	1	0	1	0	1	0	0	1	1	5526
90100	1	0	1	1	0	1	1	1	0	0	1	1	5536
90200	1	0	1	1	0	1	1	0	0	0	1	1	5516
90300	1	0	1	1	0	0	1	0	0	0	1	1	5116
90400	1	0	1	1	0	0	1	1	0	0	1	1	5136
90500	1	0	1	1	0	0	0	1	0	0	1	1	5126
90600	1	0	1	1	0	0	0	1	1	0	1	1	5166
90700	1	0	1	1	0	0	0	0	1	0	1	1	5146
90800	1	0	0	1	0	0	0	0	1	0	1	1	1146
90900	1	0	0	1	0	0	0	1	1	0	1	1	1166
91000	1	0	0	1	0	0	0	1	0	0	1	1	1126
91100	1	0	0	1	0	0	1	1	0	0	1	1	1136
91200	1	0	0	1	0	0	1	0	0	0	1	1	1116
91300	1	0	0	1	0	1	1	0	0	0	1	1	1516
91400	1	0	0	1	0	1	1	1	0	0	1	1	1536
91500	1	0	0	1	0	1	0	1	0	0	1	1	1526
91600	1	0	0	1	0	1	0	1	1	0	1	1	1566
91700	1	0	0	1	0	1	0	0	1	0	1	1	1546
91800	1	0	0	1	1	1	0	0	1	0	1	1	1746
91900	1	0	0	1	1	1	0	1	1	0	1	1	1766
92000	1	0	0	1	1	1	0	1	0	0	1	1	1726
92100	1	0	0	1	1	1	1	1	0	0	1	1	1736
92200	1	0	0	1	1	1	1	0	0	0	1	1	1716
92300	1	0	0	1	1	0	1	0	0	0	1	1	1316
92400	1	0	0	1	1	0	1	1	0	0	1	1	1336
92500	1	0	0	1	1	0	0	1	0	0	1	1	1326

92600	1	0	0	1	1	0	0	1	1	0	1	1	1366
92700	1	0	0	1	1	0	0	0	1	0	1	1	1346
92800	1	0	0	0	1	0	0	0	1	0	1	1	1246
92900	1	0	0	0	1	0	0	1	1	0	1	1	1266
93000	1	0	0	0	1	0	0	1	0	0	1	1	1226
93100	1	0	0	0	1	0	1	1	0	0	1	1	1236
93200	1	0	0	0	1	0	1	0	0	0	1	1	1216
93300	1	0	0	0	1	1	1	0	0	0	1	1	1616
93400	1	0	0	0	1	1	1	1	0	0	1	1	1636
93500	1	0	0	0	1	1	0	1	0	0	1	1	1626
93600	1	0	0	0	1	1	0	1	1	0	1	1	1666
93700	1	0	0	0	1	1	0	0	1	0	1	1	1646
93800	1	0	0	0	0	1	0	0	1	0	1	1	1446
93900	1	0	0	0	0	1	0	1	1	0	1	1	1466
94000	1	0	0	0	0	1	0	1	0	0	1	1	1426
94100	1	0	0	0	0	1	1	1	0	0	1	1	1436
94200	1	0	0	0	0	1	1	0	0	0	1	1	1416
94300	1	0	0	0	0	0	1	0	0	0	1	1	1016
94400	1	0	0	0	0	0	1	1	0	0	1	1	1036
94500	1	0	0	0	0	0	0	1	0	0	1	1	1026
94600	1	0	0	0	0	0	0	1	1	0	1	1	1066
94700	1	0	0	0	0	0	0	0	1	0	1	1	1046
94800	1	0	0	0	0	0	0	0	1	0	1	0	1042
94900	1	0	0	0	0	0	0	1	1	0	1	0	1062
95000	1	0	0	0	0	0	0	1	0	0	1	0	1022
95100	1	0	0	0	0	0	1	1	0	0	1	0	1032
95200	1	0	0	0	0	0	1	0	0	0	1	0	1012
95300	1	0	0	0	0	1	1	0	0	0	1	0	1412
95400	1	0	0	0	0	1	1	1	0	0	1	0	1432
95500	1	0	0	0	0	1	0	1	0	0	1	0	1422
95600	1	0	0	0	0	1	0	1	1	0	1	0	1462
95700	1	0	0	0	0	1	0	0	1	0	1	0	1442
95800	1	0	0	0	1	1	0	0	1	0	1	0	1642
95900	1	0	0	0	1	1	0	1	1	0	1	0	1662
96000	1	0	0	0	1	1	0	1	0	0	1	0	1622
96100	1	0	0	0	1	1	1	1	0	0	1	0	1632
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96400	1	0	0	0	1	0	1	1	0	0	1	0	1232
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97000	1	0	0	1	1	0	0	1	0	0	1	0	1322
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97300	1	0	0	1	1	1	1	0	0	0	1	0	1712
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98000	1	0	0	1	0	1	0	1	0	0	1	0	1522
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98600	1	0	0	1	0	0	0	1	1	0	1	0	1162
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98900	1	0	1	1	0	0	0	1	1	0	1	0	5162
99000	1	0	1	1	0	0	0	1	0	0	1	0	5122
99100	1	0	1	1	0	0	1	1	0	0	1	0	5132
99200	1	0	1	1	0	0	1	0	0	0	1	0	5112
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99400	1	0	1	1	0	1	1	1	0	0	1	0	5532
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99600	1	0	1	1	0	1	0	1	1	0	1	0	5562
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100300	1	0	1	1	1	0	1	0	0	0	1	0	5312
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100900	1	0	1	0	1	0	0	1	1	0	1	0	5262
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104900	1	1	1	1	1	0	0	1	1	0	1	0	7362
105000	1	1	1	1	1	0	0	1	0	0	1	0	7322
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105200	1	1	1	1	1	0	1	0	0	0	1	0	7312
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111100	0	1	0	0	0	0	1	1	0	0	1	0	2032
111200	0	1	0	0	0	0	1	0	0	0	1	0	2012
111300	0	1	0	0	0	1	1	0	0	0	1	0	2412
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111500	0	1	0	0	0	1	0	1	0	0	1	0	2422
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111700	0	1	0	0	0	1	0	0	1	0	1	0	2442
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111900	0	1	0	0	1	1	0	1	1	0	1	0	2662
112000	0	1	0	0	1	1	0	1	0	0	1	0	2622
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112200	0	1	0	0	1	1	1	0	0	0	1	0	2612
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112400	0	1	0	0	1	0	1	1	0	0	1	0	2232
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112600	0	1	0	0	1	0	0	1	1	0	1	0	2262
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120300	0	0	1	0	1	0	1	0	0	0	1	0	4212
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121000	0	0	1	1	1	0	0	1	0	0	1	0	4322
121100	0	0	1	1	1	0	1	1	0	0	1	0	4332
121200	0	0	1	1	1	0	1	0	0	0	1	0	4312
121300	0	0	1	1	1	1	1	0	0	0	1	0	4712
121400	0	0	1	1	1	1	1	1	0	0	1	0	4732
121500	0	0	1	1	1	1	0	1	0	0	1	0	4722
121600	0	0	1	1	1	1	0	1	1	0	1	0	4762
121700	0	0	1	1	1	1	0	0	1	0	1	0	4742
121800	0	0	1	1	0	1	0	0	1	0	1	0	4542
121900	0	0	1	1	0	1	0	1	1	0	1	0	4562
122000	0	0	1	1	0	1	0	1	0	0	1	0	4522
122100	0	0	1	1	0	1	1	1	0	0	1	0	4532
122200	0	0	1	1	0	1	1	0	0	0	1	0	4512
122300	0	0	1	1	0	0	1	0	0	0	1	0	4112
122400	0	0	1	1	0	0	1	1	0	0	1	0	4132
122500	0	0	1	1	0	0	0	1	0	0	1	0	4122
122600	0	0	1	1	0	0	0	1	1	0	1	0	4162
122700	0	0	1	1	0	0	0	0	1	0	1	0	4142
122800	0	0	0	1	0	0	0	0	1	0	1	0	0142
122900	0	0	0	1	0	0	0	1	1	0	1	0	0162
123000	0	0	0	1	0	0	0	1	0	0	1	0	0122
123100	0	0	0	1	0	0	1	1	0	0	1	0	0132
123200	0	0	0	1	0	0	1	0	0	0	1	0	0112
123300	0	0	0	1	0	1	1	0	0	0	1	0	0512
123400	0	0	0	1	0	1	1	1	0	0	1	0	0532
123500	0	0	0	1	0	1	0	1	0	0	1	0	0522
123600	0	0	0	1	0	1	0	1	1	0	1	0	0562
123700	0	0	0	1	0	1	0	0	1	0	1	0	0542
123800	0	0	0	1	1	1	0	0	1	0	1	0	0742
123900	0	0	0	1	1	1	0	1	1	0	1	0	0762
124000	0	0	0	1	1	1	0	1	0	0	1	0	0722

124100	0	0	0	1	1	1	1	1	0	0	1	0	0732
124200	0	0	0	1	1	1	1	0	0	0	1	0	0712
124300	0	0	0	1	1	0	1	0	0	0	1	0	0312
124400	0	0	0	1	1	0	1	1	0	0	1	0	0332
124500	0	0	0	1	1	0	0	1	0	0	1	0	0322
124600	0	0	0	1	1	0	0	1	1	0	1	0	0362
124700	0	0	0	1	1	0	0	0	1	0	1	0	0342
124800	0	0	0	0	1	0	0	0	1	0	1	0	0242
124900	0	0	0	0	1	0	0	1	1	0	1	0	0262
125000	0	0	0	0	1	0	0	1	0	0	1	0	0222
125100	0	0	0	0	1	0	1	1	0	0	1	0	0232
125200	0	0	0	0	1	0	1	0	0	0	1	0	0212
125300	0	0	0	0	1	1	1	0	0	0	1	0	0612
125400	0	0	0	0	1	1	1	1	0	0	1	0	0632
125500	0	0	0	0	1	1	0	1	0	0	1	0	0622
125600	0	0	0	0	1	1	0	1	1	0	1	0	0662
125700	0	0	0	0	1	1	0	0	1	0	1	0	0642
125800	0	0	0	0	0	1	0	0	1	0	1	0	0442
125900	0	0	0	0	0	1	0	1	1	0	1	0	0462
126000	0	0	0	0	0	1	0	1	0	0	1	0	0422
126100	0	0	0	0	0	1	1	1	0	0	1	0	0432
126200	0	0	0	0	0	1	1	0	0	0	1	0	0412
126300	0	0	0	0	0	0	1	0	0	0	1	0	0012
126400	0	0	0	0	0	0	1	1	0	0	1	0	0032
126500	0	0	0	0	0	0	0	1	0	0	1	0	0022
126600	0	0	0	0	0	0	0	1	1	0	1	0	0062
126700	0	0	0	0	0	0	0	0	1	0	1	0	0042