

*	10 0 0000 1		1			0		10010		00	
*	10 1 1 0				1	0		10010		00	
*	10 11 01 0					0	1	10010		00	
*	10 1 0000				1	0	0	10010		00	
*	10 1 000011		0	0	10	0		10010		00	
*	10 1 0000 1		0			0		10010		00	
*	10 1000					0		10010		00	
*	10 11 01				1	0		10010		00	
*	10 1 0000				01	0		10010		00	
*	100 00010				1	0		10010		00	
*	10 1 10001		1	0	0	0		10010		00	
*	10 1 10001					0		10010	01		00
*	10 10 0 1					0	0	10010	01		00
*	10 1 1000 0				0	0		10010	01		00
*	10 1 0 0					0		10010	01		00
*	100 000100 1				0	0		10010	01		00
*	10 1010				1	0		10010	01		00
*	10 11 1 10		1		1	0		10010	01		00
*	10 1 10000 0			0	1	0		10010	01		00
*	100 000000				0	0	1	10010	01		00
*	10 10000				1	0	1	10010	01		00
*	100 00010 1		1	1	1 0	0	1	10010	01		00
*	10 1001		0		1	0	11	10010	01		00
*	10 1 0000 0		1			0	0	10010	00		
*	10 1 10000		1		1	0	0	10010	00		
*	10 1 010 001		0		1	0		10010	00		
*	10 1 0000 1					0		10010	00		
*	10 11 0				1	0	0	10010	00		
*	10 1 1000 0			1	1	0	1	10010	00		
*	10 1 1				1 0	0		10010	00		
*	10 0 1 1		0		1 0	0	1	10010	00		
*	10 110 001		1		1 0	0	1	10010	00		
*	10 1 1000				1	0		100 01	01		00
*	10 1 1 1		1		1	0	1	100 01	01		00
*	10 1000				1	0	1	100 01	01		00
*	10 0 0				1	0		100 01	0		01
*	10 1 1000				0	0		100 01	0		0
*	10 1 1 1 1			0	10	0		100 01	0		0
*	10 100 0				1	0		100 01	0		0
*	10 1 1				1	0		100 01	0		0
*	10 0001		1			0		100 01	0		0
*	10 1 1 1		1	0	1	0		100 01	0		0
*	10 1 1000		1	1	0	0		100 01	0		0
*	10 1 0 0 1				1	0		100 01	0		0
*	10 1 1 0				0	0		100 01	0		0
*	10 1 0 1010			1	01	0		100 01	0		0
*	10 1 1 1 1		1			0		100 01	0		0
*	10 1 1 1 00				10	0		100 01	0		0
*	10 1 0000 0		0		1 1	0		100 01	0		0
*	10 1 1 1 1			0	1	0		100 01	0		0
*	10 1 1000				1 0	0		100 01	0		0
*	10 0 0 0			1	1	0		100 01	0		0
*	10 1 1000 1				1	0		100 01	0		0
*	10 1 0000 1				1	0		100 01	0		0
*	10 10 0				1	0		100 01	0		0
*	10 0 1 0				0	0		100 01	0		0
*	10 1 1 1 00			1	1	0		100 01	10		0
*	10 1 1 1 00					0		100 01	10		0
*	10 1 10 11				00	0		100 01	10		0
*	10 1 0 010 0			1	0	0		100 01	10		0
*	10 1 1				1	0		100 01	10		0
*	10 010 1		1		1	0	1	100 01	10		0
*	100 00010				0	0	1	100 01	10		0
*	10 1 1000 0		1		10	0		100 01	11		0
*	10 0 0 01			0	1	0		100 01	11		0
*	101 00 010 10				0	0	0	100 01	11		0
*	10 1001				10	0		100 01	11		0
*	101 1 0 0			1	1 0	0		100 01	11		0
*	10 101 1			1	1	0		100 01	11		0
*	10 1 0 010		0		01	0		100 01	1		0
*	10 1 1000			0	1 0	0		100 01	1		0
*	10 1 1000 01				1 1	0	1	100 01	1		0
*	10 0 01 0			1	1	0	1	100 01	1		0
*	100 1 01 1				1	0		100 01	1		0
*	10 1 1				1	0	0	100 01	1		0
*	10 1 1000 0			0	1 0	0	1	100 01	1		0
*	10 1 1000		1		1	0	10	100 01	1		0

*	10 1 1		0	1	0	0		100 10		0		0
*	100 0 0 0				1 1	0		100 10		0		0
*	1000 00111		0		1	0		100 10		0		0
*	10 1 1 0				1	0	1	100 10		0		0
*	10 1 11		1		1	0	1	100 10		0		0
*	100 0		1		00	0		100 10		0		0
*	11 1001 1		1		0	0		100 10		0		0
*	10 1 1000				1	0		100 10		0		0
*	10 0 10 000				1	0	1	100 10		0		0
*	100 00010 0			0	1	0	1	100 10		0		0
*	110 0 01			1		0		100 10		0		0
*	10 1 10000 0		0		1	0		100 10		0		0
*	10 110 1 1				1	0	0	100 10		0		0
*	100 1 01				1	0	0	100 10		0		0
*	100 0 110			1	1	0	0	100 10		0		0
*	10 1000 1		1		1	0		100 10		0		0
*	101 0 1110				01	0		100 10		0		0
*	10 0001 1				1	0		100 10		0		0
*	100 0				0	0		100 10		0		0
*	10 1 0			0	1	0		100 10		0		0
*	10 1 0				0	0		100 10		0		0
*	10 00				1	0	0	100 10		0		0
*	10 1 1 0				0	0		100 10		0		0
*	10 1 1				1	0	1	100 10		0		0
*	1000 00111 0				1 1	0	0	100 10		0		0
*	10 1000 0				1	0	1	100 10		10		0
*	10 1 11 11					0		100 10		11		0
*	10 1001 1				0	0		100 10		11		0
*	110 11		0		1	0	1	100 10		11		0
*	10 1 0				0	0		100 10		1		0
*	10001 00 001				0	0		100 10		1		0
*	100 0 0 01		1		1	0	0	100 10		1		0
*	10 000 0				1	0		100 10		1		0
*	10 00 1				0	0		100 10		1		0
*	10 1 0				1	0	1	100 10		1		0
*	10 010 1			0	1 0	0	1	100 10		1		0
*	10 0111				1 1	0	0	100 10		1		0
*	10 1 1000 0 1				1	0	1	100 10		1		0
*	10 1 1 0				1	0	1	100 11		01		0
*	10 11 1				1 0	0	1	100 11		01		0
*	10 1 1				1 1	0		100 11		0		0
*	10 1 0 1 0		1		1	0		100 11		0		0
*	10 1 11 0				1	0		100 11		0		0
*	10 0 010				1	0	0	100 11		0		0
*	10 1 1000 0 0				1	0	1	100 11		0		0
*	10 1 1 11				1	0	1	100 11		0		0
*	10 1 1 00				0	0		100 1		01		0
*	10 1 1		1		1	0		100 1		01		0
*	10 1 1 1				1 0	0		100 1		01		0
*	10 0		0	0		0		100 1		01		0
*	10 1 0000 00				1	0		100 1		01		0
*	10 1000 01				1	0	1	100 1		01		0
*	10 1 1000 1			0	1	0	1	100 1		01		0
*	10 10001 1				11	0		100 1		01		0
*	10 1 1 00				1	0		100 1		01		0
*	10 1 1000				0	0	1	100 1		01		0
*	10 1001				0	0		100 1		01		0
*	10 1 1000		1		1	0		100 1		01		0
*	10 1 1 1		0		0	0		100 1		01		0
*	10 10001				1	0		100 1		01		0
*	10 1 1 1 1				01	0		100 1		01		0
*	10 1110 0		1		1 1	0	0	100 1		01		0
*	10 1 1 11				1	0	0	100 1		01		0
*	10 1 0				11	0		100 1		0		0
*	10 0 01				01	0		100 1		0		0
*	10 1000 1 0				00	0		100 1		0		0
*	10 10001 1				1	0		100 1		0		0
*	10 11 1			1	1	0		100 1		0		0
*	10 10011				1	0	1	100 1		0		0
*	10 100 01		1	1	1	0	1	100 1		0		0
*	10 1 1000				1	0	0	100 1		0		0
*	10 110 1				1 0	0		100 1		0		0
*	10 10 100 0			0	1	0	1	100 1		0		0
*	100 000100				1	0	1	100 1		0		0
*	10 1 1				0			100 1		01		0
*	10 1 1 00		1		0	0		100 1		01		0
*	10 1 1000 0 1				1 0	0	0	100 1		01		0

*	10	1110				0		100 1	01	0
*	10 1	1000 1			1	0		100 1	01	0
*	10	1			10	0		100 1	01	0
*	1111	100001		1	1	0		100 1	01	0
*	10 1	1000 10		1	0	0	0	100 1	01	0
*	10001	00 001		1	11	0		100 1	0	0
*	10	1 1			0	0		100 1	0	0
*	10 1	1000	1			0		100 1	0	0
*	10	0 01		0	1	0		100 1	0	0
*	10 1	1000			0	0	1	100 1	0	0
*	10	10 0			01	0	0	100 1	01	0
*	10	110			1	0		100 1	01	0
*	10	1 10		1	1	0		100 1	01	0
*	10	1001			1	0		100 1	01	0
*	10	00000 11		1	1	0		100 1	0	0
*	10	1000		0	1	0		100 1	0	0
*	10	1 00			1	0		100 1	0	0
*	10	00000			1	0		100 1	0	0
*	10 1	100011	1	0		0		100 01	00	
*	10 1	1000 0				0		100 01	00	
*	10 1	1000 0 0		1		0		100 01	00	
*	10	1 1				0		100 01	00	
*	10 1	1000				0		100 01	00	
*	10 1	100011			0	0		100 01	00	
*	10	0 1	0		1	0		100 01	00	
*	10	10 0		1		0		100 01	00	
*	10 1	1000 1				0		100 01	00	
*	10 1	1000			1	0		100 01	00	
*	10	0 1 1	0		1	0		100 01	00	
*	101	1 1	0	0	1	0		100 01	00	
*	10	1 0			0	0		100 01	00	
*	1000	111 1 0 0			0	0		100 01	00	
*	100	00010	0		1	0	1	100 01	00	
*	10 1	1000			11	0	1	100 01	00	
*	10 1	1000		1	0	0	1	100 01	00	
*	1000	111 1 0			11	0	0	100 01	00	
*	10	0 10	0	1	0	0	0	100 01	00	
*	10	00000 0	0			0	01	100 01	00	
*	10 1	1000				0	1	100 01	00	
*	0	01 0 0				0		100 01	00	
*	10 1	1000				0		100 01	00	
*	10	0 00 1			1	0	1	100 01	00	
*	10	1 0 000			1	0	1	100 01	00	
*	10 1	10000			0	0		100 01	00	
*	10	10 001 1	1		1	0		100 01	00	
*	10 1	10 01 1				0		100 01	00	
*	10 1	1 0 0		1		0		100 01	00	
*	10	00000 0			1	0		100 01	00	
*	10	0 00 1	1		0	0		100 0	00	
*	10	0 0 0 1				0				

*	10 1 1000 1					0		100 0		10		00
*	100 00001					0		100 0		10		00
*	10 00000					1		100 0		10		00
*	10 00000							100 0		11		00
*	10 1 10 010			1		1		100 0		11		00
*	10 0 0 00					1		100 0		11		00
*	10 1 01010		1					100 0	0	11		00
*	10 1 100							100 0		11		00
*	10 0 00001							100 0		11		00
*	101 10 00							100 0		11		00
*	10 1 0 1							100 0		11		00
*	10 1 1000					0		100 0		1		01
*	10 00000 011							100 0		1		01
*	0 1 0 0 0			1		10		100 0		1		01
*	10 1 1000 0			1				100 0		1		01
*	10 00000 0					0		100 0		1		01
*	10 1 1000		1					100 0		1		01
*	1 0 10 0000		1					100 01		00		
*	10 11 0 1000		1					100 01		00		
*	100 11		1					100 01		00		
*	10 0 0							100 01		00		
*	10 111100 1					1		100 01		00		
*	100 0 10		1					100 01		00		
*	10 1 10001					0		100 01	0	00		
*	101 1 00 0		0		0			100 01		00		
*	10 1 1000							100 01		00		
*	10 1 1000							100 01		00		
*	10 1 11		1					100 01		00		
*	10 1 1000 0					1		100 01		00		
*	10 1 1000 1					0		100 01		00		
*	10 1 10000		1		0	1		100 01		00		
*	10 1001		1					100 01	1	00		
*	10 1000 110		0		0	1		100 01		00		
*	10 1 00							100 01		00		
*	10 1 1000 0							100 01		00		
*	10 100 0							100 01		00		
*	10 1 1000					1		100 01		00		
*	10 1 1000 1 0							100 01		00		
*	10 1 1000		0					100 01		00		
*	10 1 10000							100 01	1	00		
*	10 1 1000							100 01	0	00		
*	100 00001							100 01		00		
*	10 1 1000 1					1		100 01		00		
*	10 1 1000							100 01		00		
*	10 1 10000					0		100 01		00		
*	10 1 1000 0							100 01		00		
*	10 1 10000 1							100 01		00		
*	10 111 0					1		100 01		00		
*	10 0 00000 1							100 0	0	01		00
*	10 11 0 1000 1					1		100 0		01		00
*	10 110 00							100 0		01		00
*	10 1 1000 1					1		100 0		01		00
*	10 1 10001					1		100 0		01		00
*	10 1 1000					1		100 0	1	01		00
*	10 1 1000 101					1		100 0	11	01		00
*	10 1 1000							100 0		0		00
*	10 1 01 1					1		100 0		0		00
*	10 1 1000					0		100 0	1	0		00
*	10 000 0 1					1		100 0		0		00
*	10 1 1000 01					1		100 0		0		00
*	101 00000		0		1	10		100 0	1	0		00
*	10 1000					1 1		100 0	1	0		00
*	10 1 1000 0					1		100 0		0		00
*	10 0 11 1					1		100 0		0		00
*	10 0 1111		0			1		100 0		0		00
*	10 0 1		0			1		100 0		0		00
*	10 100 0					0		100 0		0		00
*	10 1 1000 0					1 1		100 0	1	0		00
*	100 0001010					1		100 0	1	0		00
*	10 0 00000 1							100 0	0	0		01
*	100 000000							100 0		0		01
*	10 1000 1					0		100 0		0		01
*	10 1 1000 1							100 0		00		
*	10 1 010 1					1		100 0		00		
*	10 1 1000		1			1		100 0		00		
*	10 1 11					1		100 0		00		
*	101 1 1 1					0		100 0		00		

*	101	00000		0		1 0	0		100 0		00		
*	10 1	1000			0		0	0	100 0		00		
*	10 1	1000				0	0	0	100 0		00		
*	10 1	1000 1			0		0		100 0		00		
*	100	0 1		0		1	0		100 0		00		
*	10	110 00			0		0	1	100 0		00		
*	10	1000			0		0	0	100 0		00		
*	10 1	1000 1		0			0		100 0		00		
*	10	11 01 1							100 0		00		
*	10 1	1000		1		0	0		100 0		00		
*	10	110 1				1	0		100 0		00		
*	100	0 1		0		1	0		100 0		00		
*	10 1	1000		0		1	0		100 0		00		
*	100	0				1	0	0	100 0		00		
*	100	00000 1					0	0	100 0		00		
*	10	0 1			0	1	0		100 0		00		
*	10 1	00000 01				1	0		100 0		00		
*	10	100 0				1	0	0	100 0		00		
*	10 1	10000				1	0		100 0		00		
*	100	0				1	0		100 0		00		
*	10 1	1000 0					0		100 0		00		
*	10 1	1000 1		1		10	0		100 0		00		
*	101	00000 0			1	0	0		100 0		00		
*	10 1	00000 01				0	0		100 0		00		
*	10 1	1000 11		0		1	0		100 0		00		
*	10 1	1000 0				0	0		100 0		00		
*	10 10	100 00 01				1	0		100 0		01		00
*	10 1	1000 1				1	0		100 0		01		00
*	10 1	1000 1				0	0		100 0		01		00
*	10	10001		1		1 1	0		100 0		01		00
*	10	100 0				00	0		100 0		01		00
*	10 1	1000 11				1	0		100 0		01		00
*	10 1	100000		0		1	0	1	100 0		01		00
*	100	000101 1			1	1	0	1	100 0		0		00
*	10 1	00000				0	0		100 0		0		00
*	10 1	1000 0				1	0		100 0		0		00
*	10 1	10000 1				0	0		100 0		0		00
*	10	10 1 00				0	0		100 0		0		00
*	10 1	1000 00		1		0	0		100 0		0		00
*	10	1 0 1				1	0		100 0		0		00
*	10 1	1000				1	0		100 0		0		00
*	100	0000011				11	0		100 0		0		00
*	10	1 1 01		0		10	0		100 0		0		00
*	10 1	100 000		1		1	0	1	100 0		0		00
*	10	010				1	0	1	100 0		0		00
*	101	00000			1	1	0	0	100 0		0		00
*	10	1 10 0					0		100 00		01		001
*	10 1	1000 0				1	0		100 00		01		001
*	10 1	1000			0	1 0	0		100 00		01		001
*	10 1	1000				1	0		100 00		01		001
*	10001 00	0 0		0			0		10 00		0		00
*	10	0 1 0					0		10 00		0		00
*	10	111 10		0			0		10 00		0		00
*	10	10 0				0	0		10 00		0		00
*	10 1	1000				1	0		10 00		0		00
*	10 1	10001				0	0		10 00		0		00
*	10 1	1000110					0		10 00		0		00
*	10	000 1 0				1 0	0		10 00		0		00
*	10 1	1000 10					0		10 00		0		00
*	10	1000 1				0	0		10 00		0		00
*	10	1 1				10	0		10 00		0		00
*	100	0000010		0		1	0		10 00		0		00
*	10 1	1000		1			0		10 00		0		00
*	10	000 0				1	0		10 00		0		00
*	10 1	1000				10	0	1	10 00		0		00
*	10 1	1000 01				0	0	1	10 00		0		00
*	10 1	1000 0				0	0	1	10 00		0		00
*	10 1	1000				0	0	0	10 00		0		00
*	100	000001				1	0		10 00		0		00
*	100	00000				1	0		10 00		0		00
*	10	10 00001		0			0	01	10 00		0		00
*	101	1 1		1			0		10 00		0		00
*	10	0		1		1	0		10 00		0		00
*	10	1			0		0		10 00		0		00
*	10	1010 0					0		10 00		0		00
*	10 10 10	001				1	0		10 00		0		00
*	10	0		0	1	1	0		10 00		0		00

*	10	1	1000				1	0	1	10	00	0	00	
*	10		10	1	0			0		10	00	0	00	
*	10		000	1	0			0		10	00	0	00	
*	10		10	0	1		0	0		10	00	0	00	
*	101		00000	1		0		0		10	00	0	00	
*	10		1	1	0		1	0		10	00	0	00	
*	10		1001	0				0	1	10	00	0	00	
*	10		1000		1	0	0	0	1	10	00	0	00	
*	10		0	0	0			0	1	10	00	0	00	
*	10		1000			1		0	0	10	00	0	00	
*	10		0111		1		1	0		10	00	0	00	
*	10	1	1000					0		10	00	0	00	
*	101		000001					0		10	00	0	00	
*	10		10	0	01		1	0		10	00	0	00	
*	100	00	1	0	0			0		10	00	0	00	
*	10	10	10	00		1		0		10	00	0	00	
*	10		0			1		0		10	00	0	00	
*	10		000	1				0		10	00	0	00	
*	10	10	10	00			1	0		10	00	0	00	
*	10	1	1000	1		1		0		10	00	0	00	
*	10		1001				1	0		10	00	0	00	
*	10		000	1				0		10	00	0	00	
*	10		1001				1	0		10	00	0	00	
*	10	10	10	000		1		0		10	00	0	00	
*	10	10	10	00		0		0		10	00	0	00	
*	10		0					0		10	00	0	00	
*	10		1000		1		1	0		10	00	0	00	
*	10		1000	00		0		1		10	00	0	00	
*	10		1000		1		1	0		10	00	0	00	
*	10		100	01		1	0	10		10	00	0	00	
*	10	1	1000				1	0		10	00	00		
*	10	1	1000	0		0		1		10	00	00		
*	10	1	1000	0			1	0		10	00	00		
*	101		1	0				0		10	00		01	
*	10		01	0		0			1	10	00		01	
*	100		0	1				0		10	00		01	
*	100		0					0		10	00		01	
*	10		10	0	1			0		10	00		01	
*	10		01	011			1	0		0	10	00		01
*	10	1	10000		1			0			10	00		01
*	10		1	0		0					10	00		01
*	10		10	0	1			0	1		10	00		01
*	10		100				1	0	1		10	00		01
*	10		000	0			0	0			10	00		01
*	10	1	0000111	0		1		0			10	00		01
*	10		10	1	1			0			10	00		01
*	10		1000	0			1	0			10	00		01
*	10		1	0			1	0			10	00		01
*	10	1	10000	01			0	0			10	00		01
*	10		1	1	0			0			10	00		01
*	10		1010	1		1		1			10	00		01
*	10		1001			0		1			10	00		01
*	10	1	10000	0			1	0			10	00		01
*	10		1	1			00	0	0		10	00		01
*	10	0	1	1	01		0				10	00		01
*	10		00			0		0			10	00		01
*	10		1111	1			00	0	1		10	00		01
*	100		11	10	0		1	0	0		10	00		01
*	10	1	1000				1	0			10	00		01
*	10	1	1000	000			01	0			10	00		01
*	10	1	1000	01			1	1	0		10	00		01
*	10	1	1000				1	0		1	10	00		01
*	10	1	100010				1	0	1		10	00		01
*	10		1	0			0	0	1		10	00	10	01
*	10	1	1000		1	0		0	1		10	00	10	01
*	10	1	1000	0			1	0			10	00	10	01
*	100		0001001				1	0	0		10	00	10	01
*	10	1	00000				0	0			10	00	10	01
*	10	1	1000				0	0			10	00	10	01
*	10	1	1000	0		1		1	0		10	00	10	01
*	10		10	0		0		0			10	00	10	01
*	10		10	0	1		0	0			10	00	10	01
*	10	1	10000	1		0		1	0		10	00	10	01

*	10 1 100011					0		10 00		11		01
*	10 1 1000					0		10 00		11		01
*	10 1 1000				0	0		10 00		11		01
*	10 011				0	1		10 00		11		01
*	10 1000 10		1			0		10 00		11		01
*	10 1 1000 1					0	1	10 00		11		01
*	10 1 1000 1				0	0		10 00		11		01
*	10 0 0 0							10 00		11		01
*	10 100					1		10 00		11		01
*	10 1010							10 00		11		01
*	10 1 0					1		10 00		11		01
*	10 000 0					1		10 00		11		01
*	10 1 10001							10 00		11		01
*	10 110 1		1			0		10 00		11		01
*	10 0 0							10 00		11		01
*	10 01 0		1					10 00		11		01
*	10 1 100001					10	0	10 00		11		01
*	100 0 10					1		10 00		11		01
*	10001 00 0 1			1		0		10 00		11		01
*	10 01 0					1		10 00		11		01
*	10001 00 010			1		1		10 00		11		01
*	10 1 1000 0					1		10 00		11		01
*	10 1 1000				0	1		10 00		1		01
*	10 11 0 10010							10 00		1		01
*	10 01 0 0				0	1		10 00		1		01
*	100 0 10				0	0		10 00		1		01
*	10 10001				0	0		10 00		1		01
*	10 1010					1		10 00		1		01
*	10 1001 1					1		10 00		1		01
*	10 1 100010 1				0	1		10 00		1		01
*	10 01 0					1	0	10 00		1		01
*	10 1001				1	10		10 00		1		01
*	101 00000 1					0		10 00		1		01
*	10 01 01		1					10 00		1		01
*	10 010		1					10 00		1		01
*	10 1000 0					1		10 00		1		01
*	10 1 1000 0					00		10 00		1		01
*	10 1 1000				1	1		10 00		1		01
*	100 1 1 1101					0		10 00		1		01
*	10 1 1000 0					0		10 00		1		01
*	10 1 1000 1		0			1		10 00		1		01
*	10 1 1000					1		10 00		1		01
*	10 1000 1					1		10 00		1		01
*	10 110					1	0	10 00		1		01
*	10 1 10001 1					1 0		10 00		1		01
*	10 1 1000 1					1	0	10 00		1		01
*	10 1 1000 1		0			0		10 00		1		01
*	10 1000 0		1			0		10 00		1		01
*	10 1 10000				0	1		10 00		1		01
*	10 1 0000 0 1		1			0		10 00		1		01
*	10 0 011					1		10 00		1		01
*	10 1 00000					1		10 00		1		0 0
*	10 1 1000 0					0		10 00		1		0 0
*	1 0 10 0001					0		10 00		1		0 0
*	10 1 1000					1	0	10 00		1		0 0
*	10 1 1 1 1					1	0	10 00		1		0 0
*	10 1 1000 1		0					10 00		0		0 0
*	10 1 1000		0					10 00		0		0 0
*	10 1 1000					1		10 00		0		0 0
*	10 000 0 11		1			1	0	10 00		0		0 0
*	10 1 1000					11		10 00		0		0 0
*	100 1 0 10		0			1		10 00		0		0 0
*	10 0 1 0					0		10 00		1		0
*	10 1 10000							10 00		1		0
*	10 10 10 001					1		10 00		1		0
*	10 1001					1		10 00		1		0
*	10 100					0		10 00		1		0
*	10 00							10 00		1		0
*	10 1000 0				0	1	0	10 00		1		0
*	10 1 10001 00					0		10 00		1		0
*	10 1 1000					0	1	10 00		1		0
*	1 0 10 000		1			0	11	10 00		1		0
*	10 1 1000 0					1		10 00		1		0
*	10 10010					1		10 00		1		0
*	10 0 0					1		10 00		1		0
*	1 1 1 0000 0		0			1		10 00		1		0

*	100	00000			1	1	0		10	00	1		0
*	10	011	00		1	1	0		10	00	1		0
*	10	1	10001	1			0	0	10	00	1		0
*	10	1001	0			1	0	0	10	00	1		0
*	101	1	1	0	1		0		10	00			0
*	10	10	0	0	1		0		10	00			0
*	10	10	0	0			0		10	00			0
*	101	1			1	0	0		10	00			0
*	10	1001	0	1			0		10	00			0
*	10	1	1000		1		0		10	00			0
*	100	0000011	1				0	1	10	00	0		01
*	10	00000				1	0		10	00	0		01
*	10	1	1000	0		1	0		10	00	0		01
*	100	00000				1	0		10	00	0		01
*	100	000001	1			1	0		10	00	0		01
*	10	1	1000		1	1	0	0	10	00	0		01
*	100	101	1				0		10	00	11		01
*	10	1	1000	1			0		10	00	11		01
*	10	1	1000		0	0	1	0	10	00	11		01
*	10	1	1000	0	0		1	0	10	00	11		01
*	100	000000				1	1	0	0	10	11		01
*	10	1001					0		10	00	1		01
*	10	100	00			1	1	0	0	10	1		01
*	101	00000	1		1		0		10	00	1		01
*	100	00010	1			1	0		10	00	1		01
*	10	1	10001	01			0		10	00	1		01
*	10	1	1000		1		0	0	10	00	1		01
*	100	000000	0			0	0		10	00	1		01
*	100	000001	0		0	1	0	1	10	00	1		01
*	10	1	00			1	0		10	00	1		0 0
*	10	0	10	0	1		0		10	00	1		0 0
*	10	1	10000	0		1	0		10	00	1		0 0
*	10	1	1000			0	0		10	00	1		0 0
*	100	11110			1	0	0	1	10	00	1		0 0
*	10	1	1000			1	0		10	00	1		0 0
*	100	0	10		0		1	0	0	10	1		0 0
*	100	000001	1				0		10	0	1		00
*	10	1	1000	0			0		10	0	1		00
*	10	1	01	1			0		10	0	1		00
*	10	0	0111			1	1	0	1	0	0		0
*	10		1	1	0		1	1	11	1	0		0
*	10	0	010			1	0	1	11	1	0		0
*	10	0001			0	1	1	0	1	0	0		0
*	10	1	0	00		1	1	0	1	0	0		0
*	1000	1	1		1	1	1	00	1	0	0		0
*	10	1	1	0	0	1	1	1	1	0	0		0
*	10	1	0	00	1		1	1	1	0	0		0
*	10	1	0	00	1		1	1	1	0	0		0
*	10	1	0	00	1		1	1	1	0	0		0
*	100	11	1			1	11		1	0	0		0
*	10	0	1			1	11		1	0	0		0
*	10	1	0	0			111	1		1	0		0
*	10	00	1		0	1	1			1	0		0
*	10	1	000001			1	1			1	0		0
*	10	1	0	1		1	0	11	0	1	0		0
*	10	110				1	1	0	1	0	0		0
*	101	1	1	1	0		110	11		1	0		0
*	10	1	0	10		0	1	1	1	1	0		0
*	10	100	11	1			11	1		1	0		0
*	10	10	0		1		11	1		1	0		0
*	10	1	1	0	0	1		1		1	0		0
*	10	1	1	0	01	1		1		1	0		0
*	10	11	00	0		1		1		1	0		0
*	10	1	1	0	00			11	1		1		0
*	10	1100					11	1		1	0		0
*	10	1	1	0	01	1		11	1		1		0
*	10	10	1	0	001		1	0	11		1		0
*	10	1	0	01	1		11	1		1	0		0
*	10	1	1	0	1		11	11	0+10	1	0		0