

Barrelshifter

Schieben und rotieren

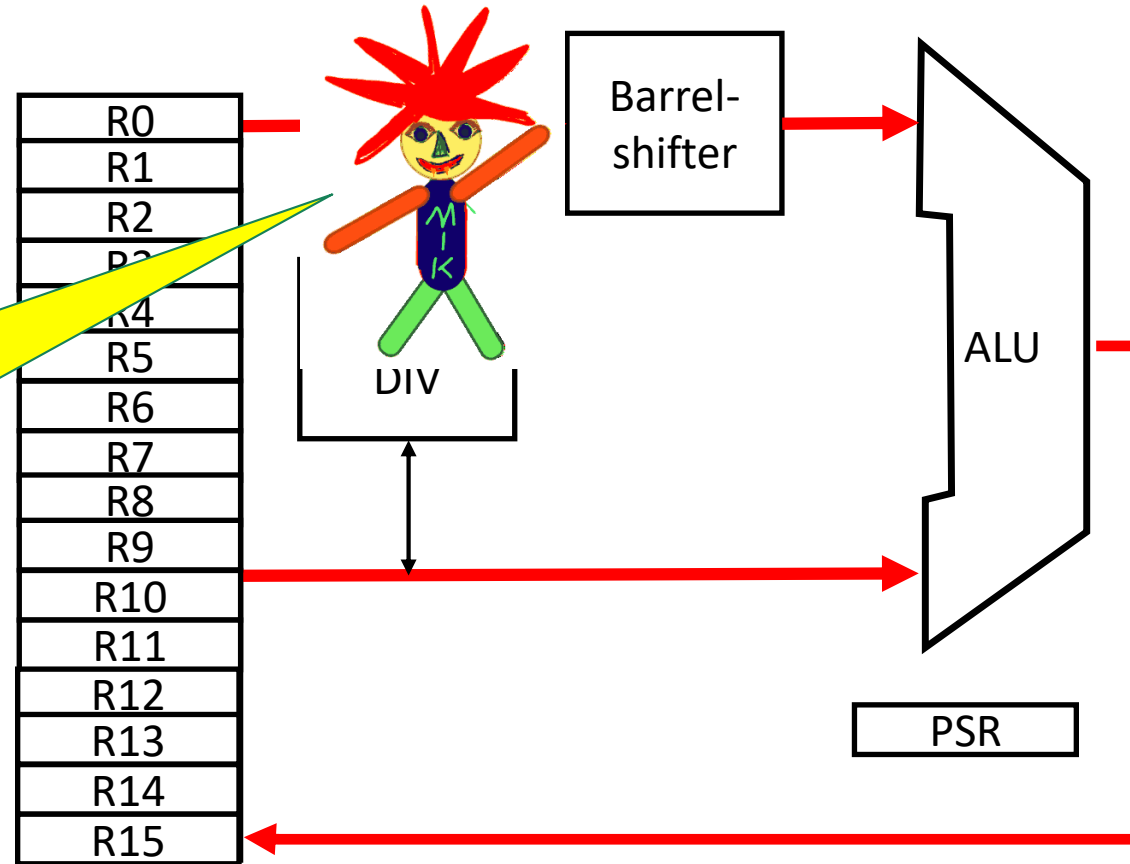


Ich bin Mik, Dein Mikrocontroller

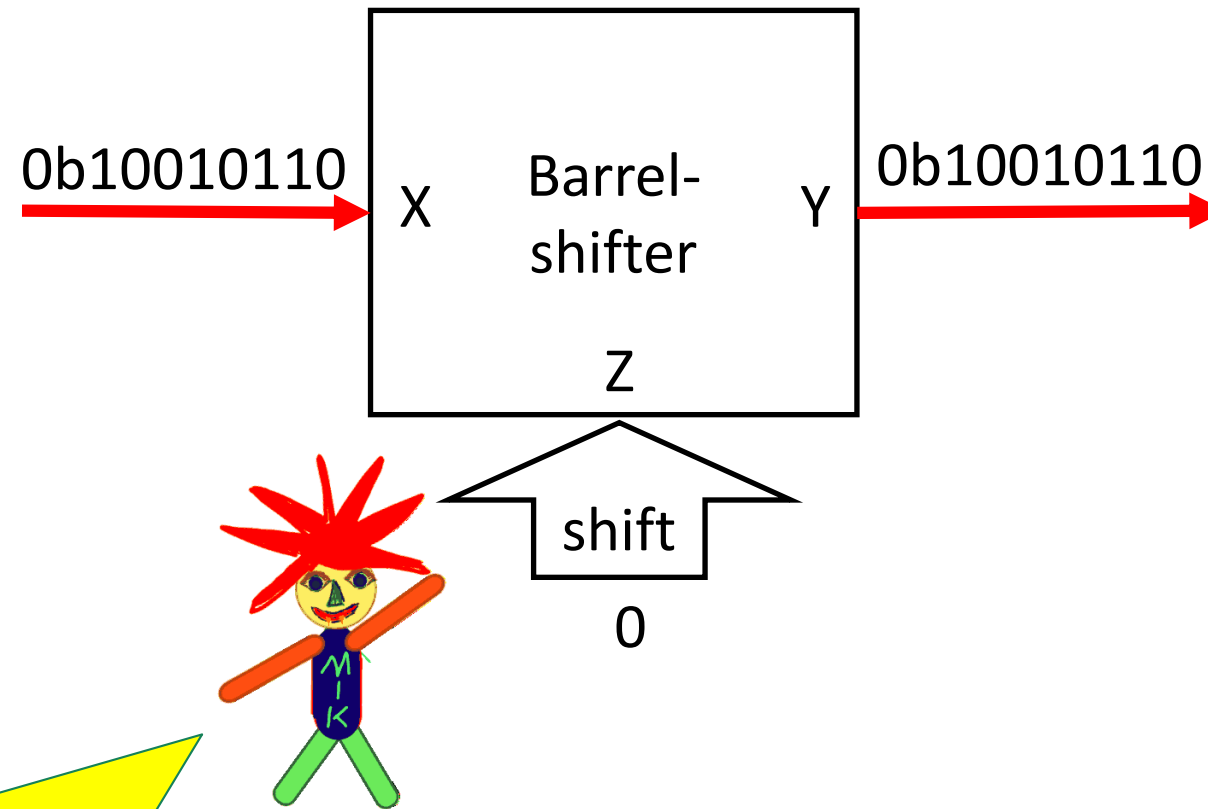


Barrelshifter

Ein Operant der ALU passiert den Barrelshifter.
Was ist das????



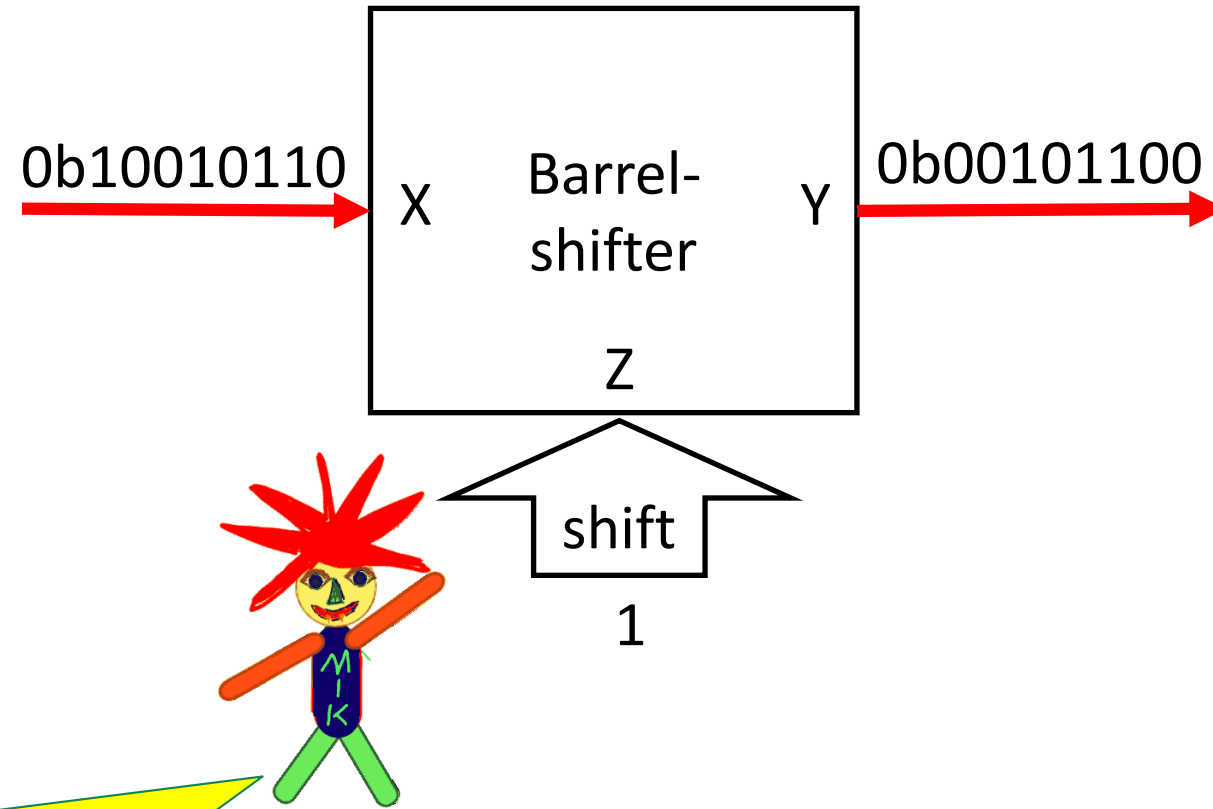
Barrelshifter



Der Barrelshifter „schiebt“ den Eingangswert X um eine Anzahl von Z Binärstellen und gibt das Ergebnis $Y = X \ll Z$; aus



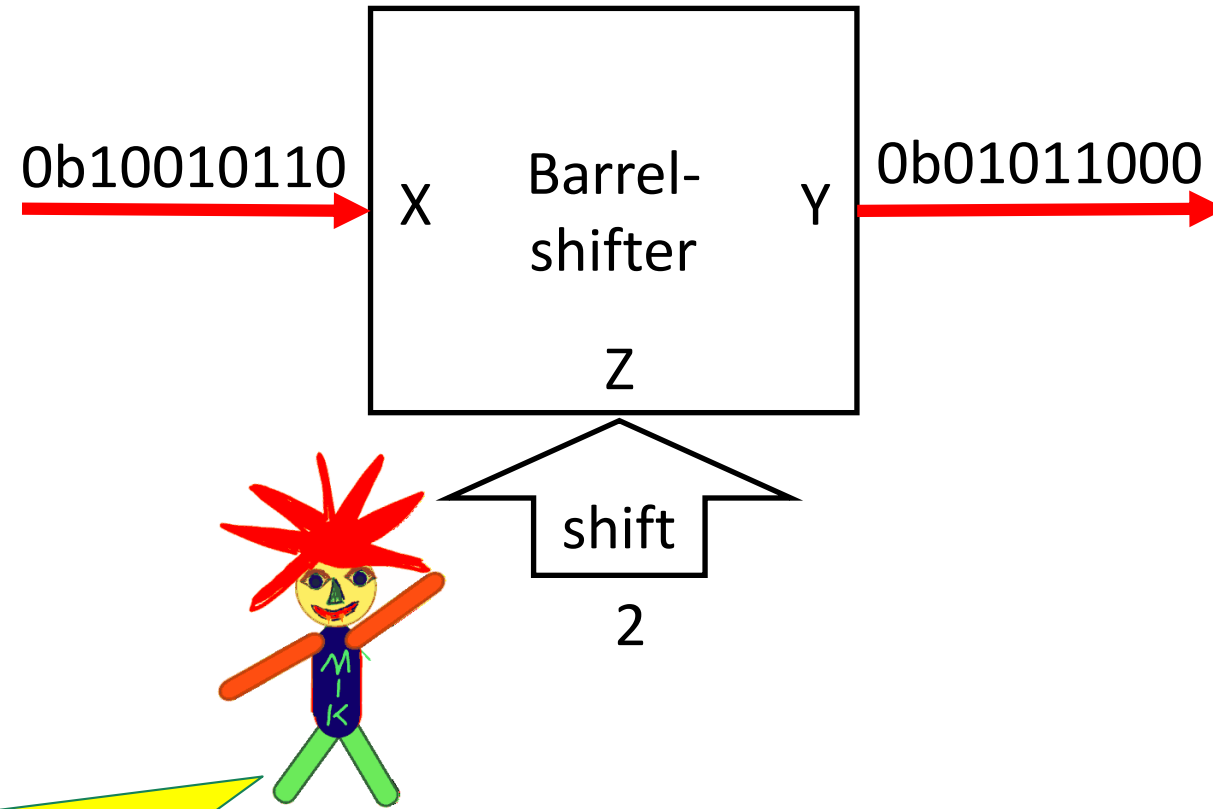
Barrelshifter



$0b00101100 = 0b10010110 \ll 1$



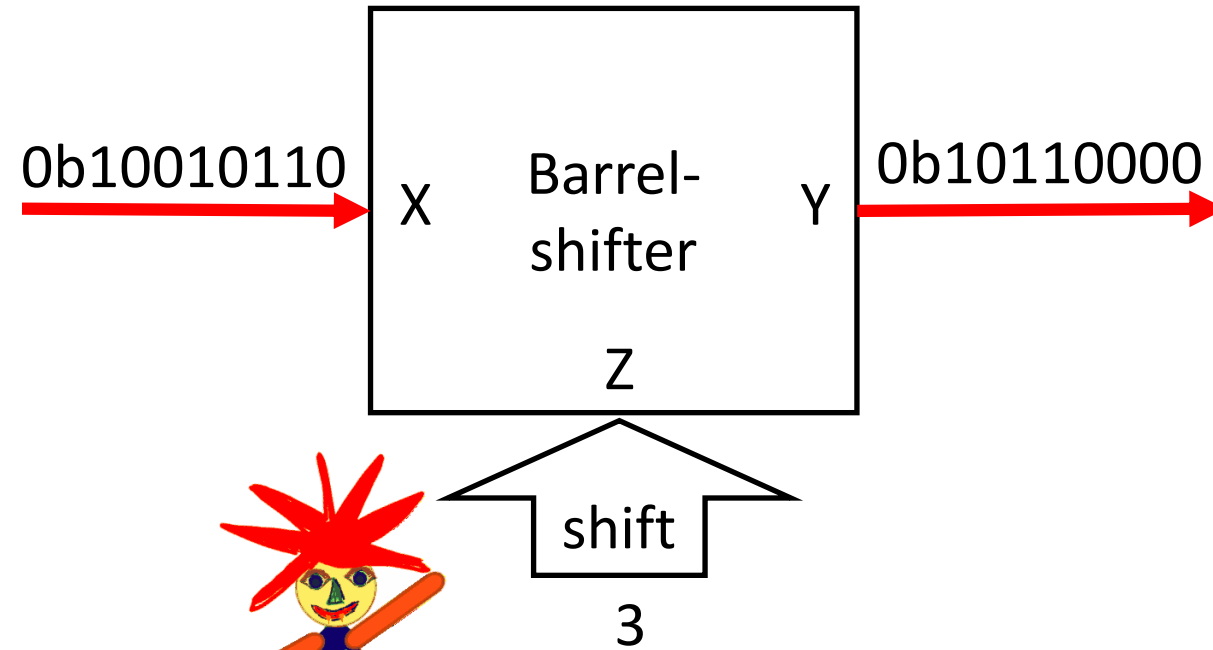
Barrelshifter



$0b01011000 = 0b10010110 \ll 2$



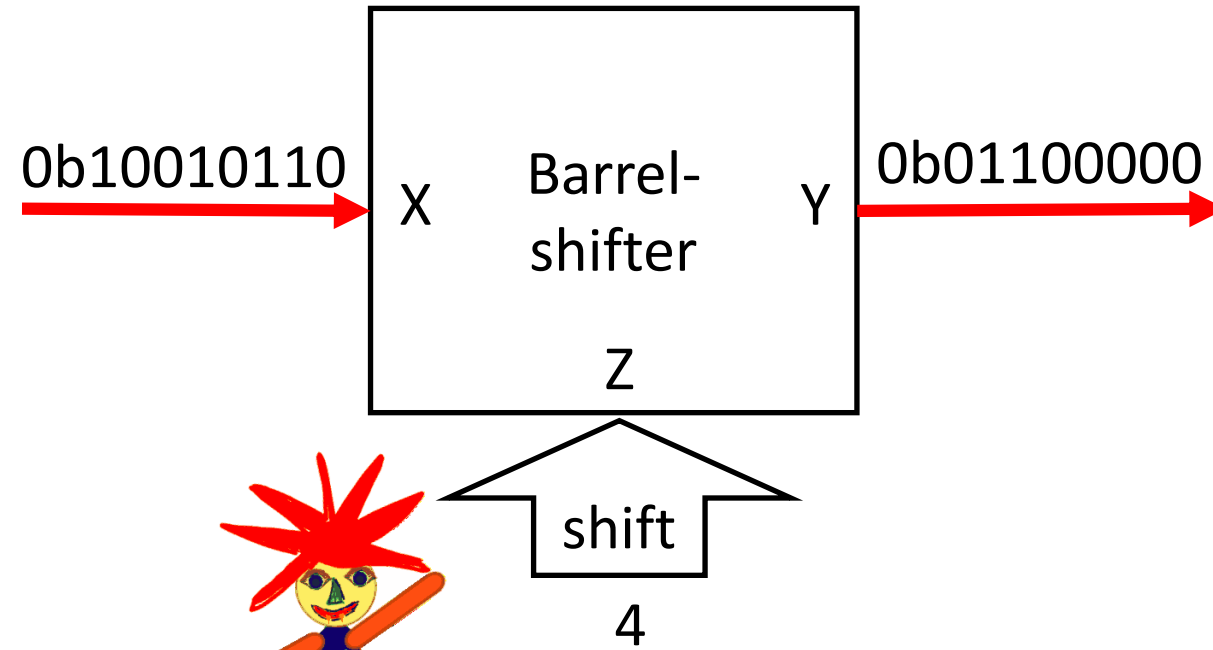
Barrelshifter



$0b10110000 = 0b10010110 \ll 3$



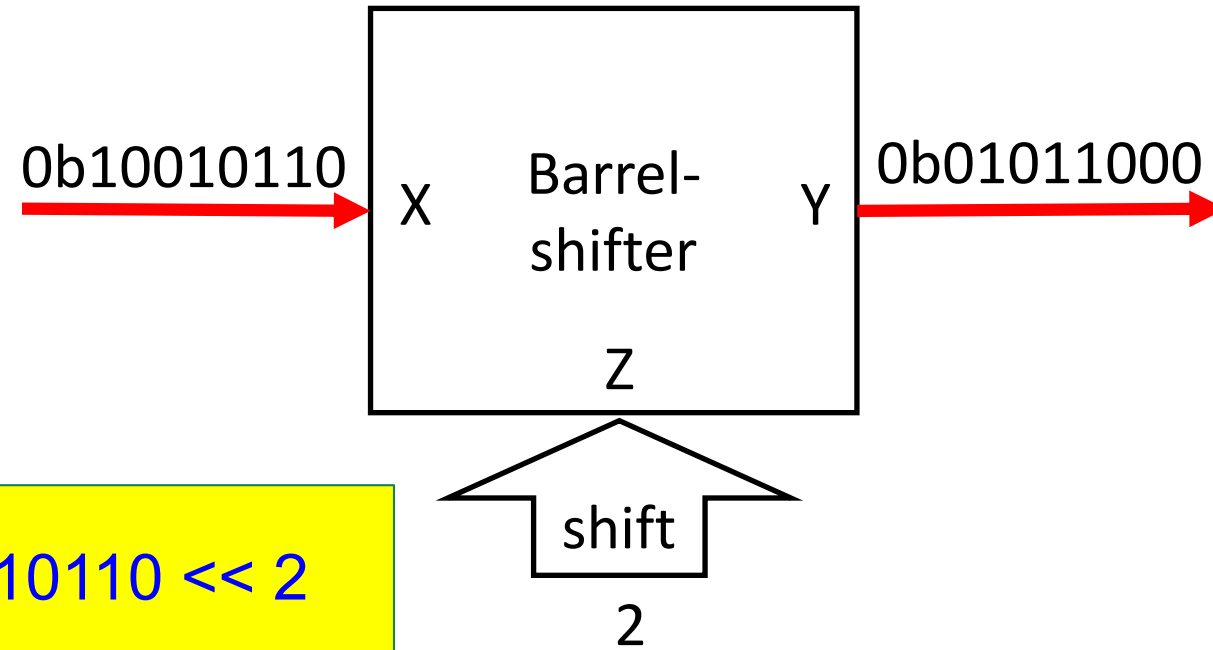
Barrelshifter



$0b01100000 = 0b10010110 \ll 4$



Barrelshifter



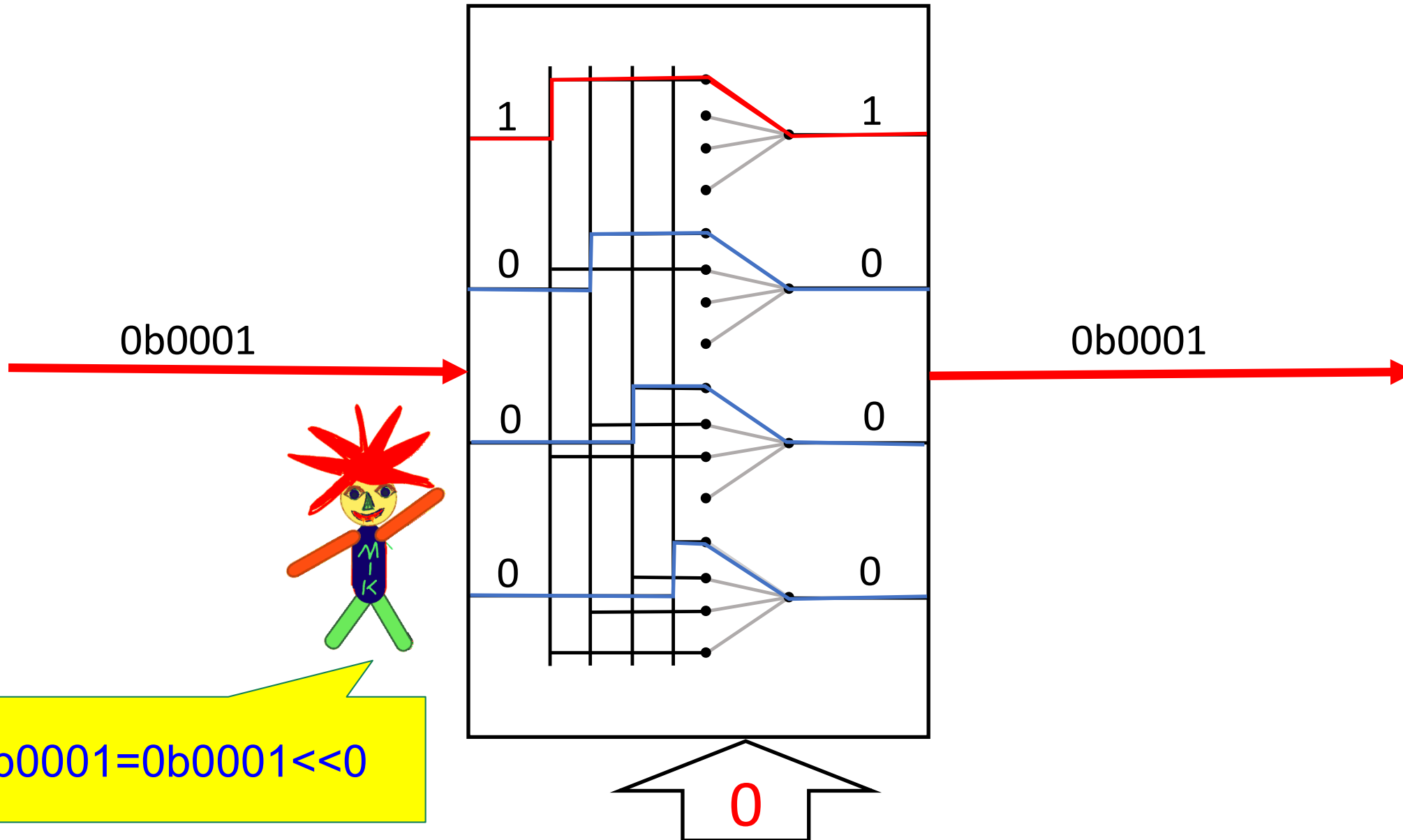
$$0b01011000 = 0b10010110 \ll 2$$



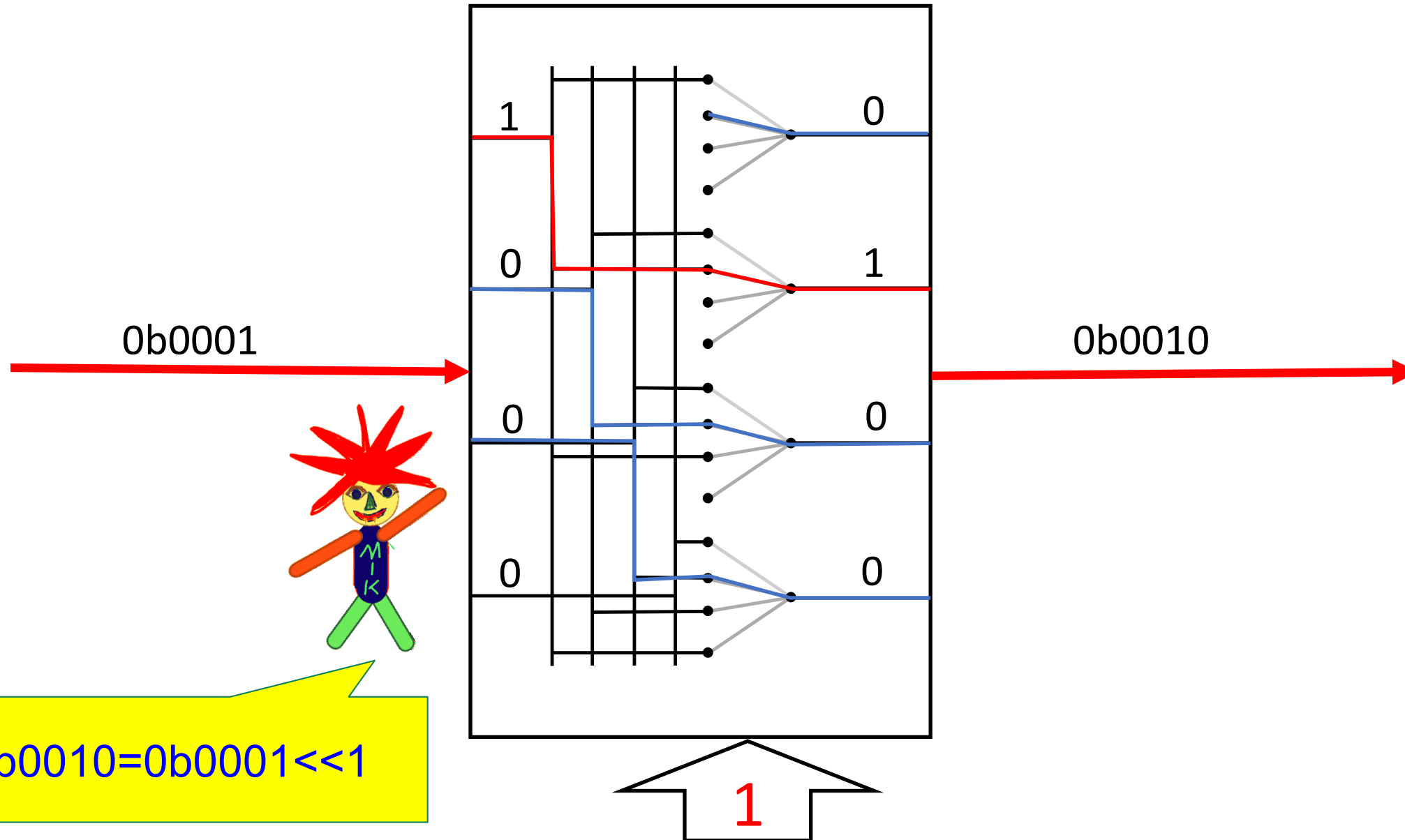
X	1	0	0	1	0	1	1	0
Y	0	1	0	1	1	0	0	0



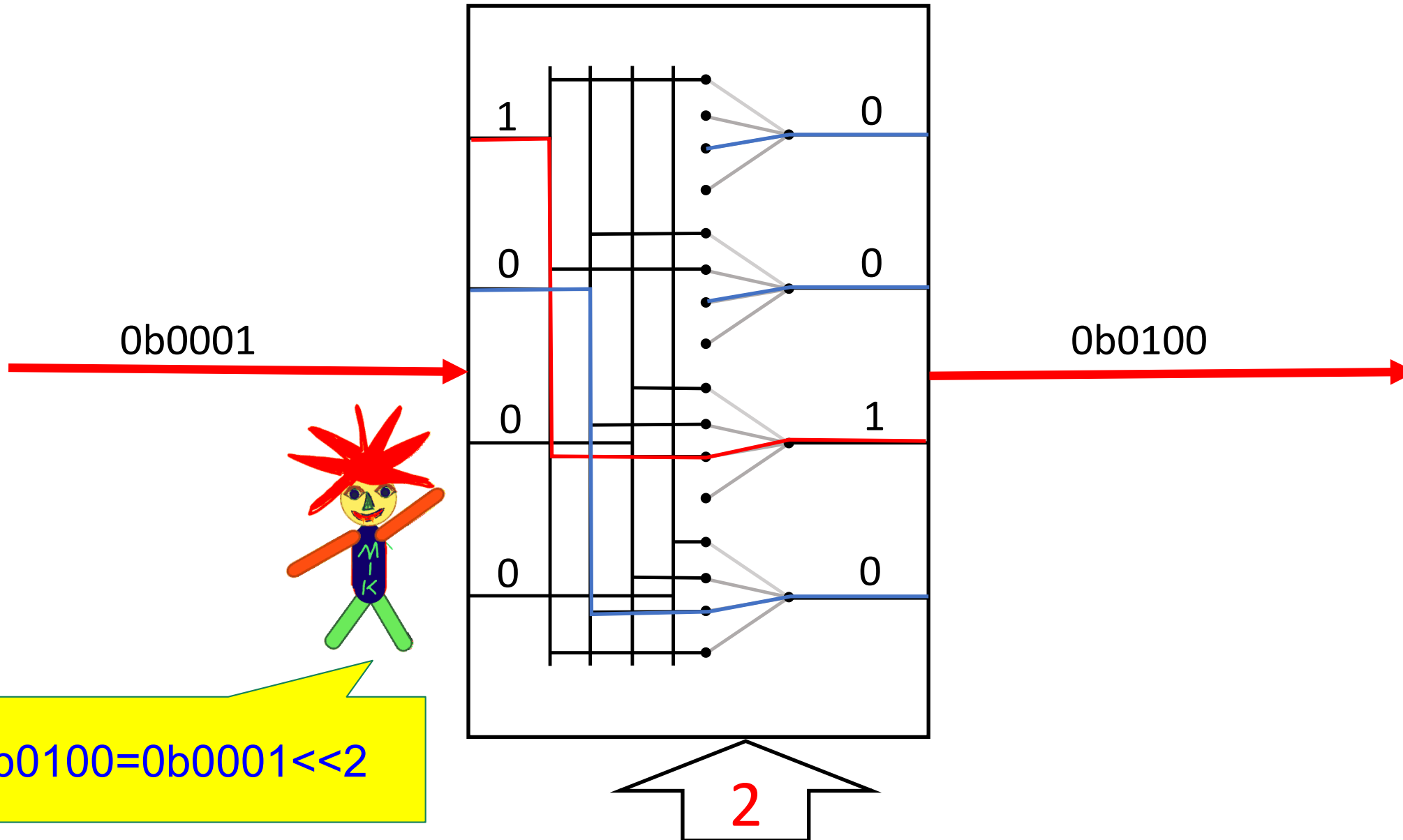
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