1.4 Multiplication and Overflow

a = 10110 (= 22)

b = 00110 (=6)

00110 : does the last bit of b is equal to 1? No

00110 >> 1 = 00011 : Is the last bit of bequal to 1? Yes 🡪 c = a << 1 = 101100

00011 >> 1 = 00001 : Is the last bit of b equal to 1? Yes 🡪 c = c + a << 2 = 101100 + 1011000 = 10000100

00001 >> 1 = 00000 : Is the last bit of b equal to 1? No. Is b equal to 0? Yes 🡪 Finished c = 10000100 (=132)