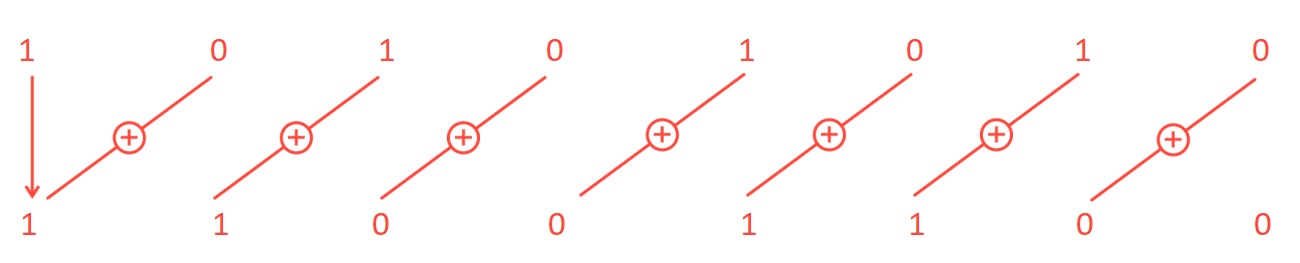
# Homework 4 <GRAY CODE>

Find the decimal value of the gray code:

**Answer**:



**Matlab implementation**:

gray\_code=[1 0 1 0 1 0 1 0];

binary\_code=zeros(size(gray\_code));

binary\_code(1) = gray\_code(1);

decimal = binary\_code(1) \* 2^(length(binary\_code)-1);

for i=2:length(gray\_code)

binary\_code(i) = xor(gray\_code(i),binary\_code(i-1)) ;

decimal = decimal + binary\_code(i) \* 2^(length(binary\_code)-i);

end