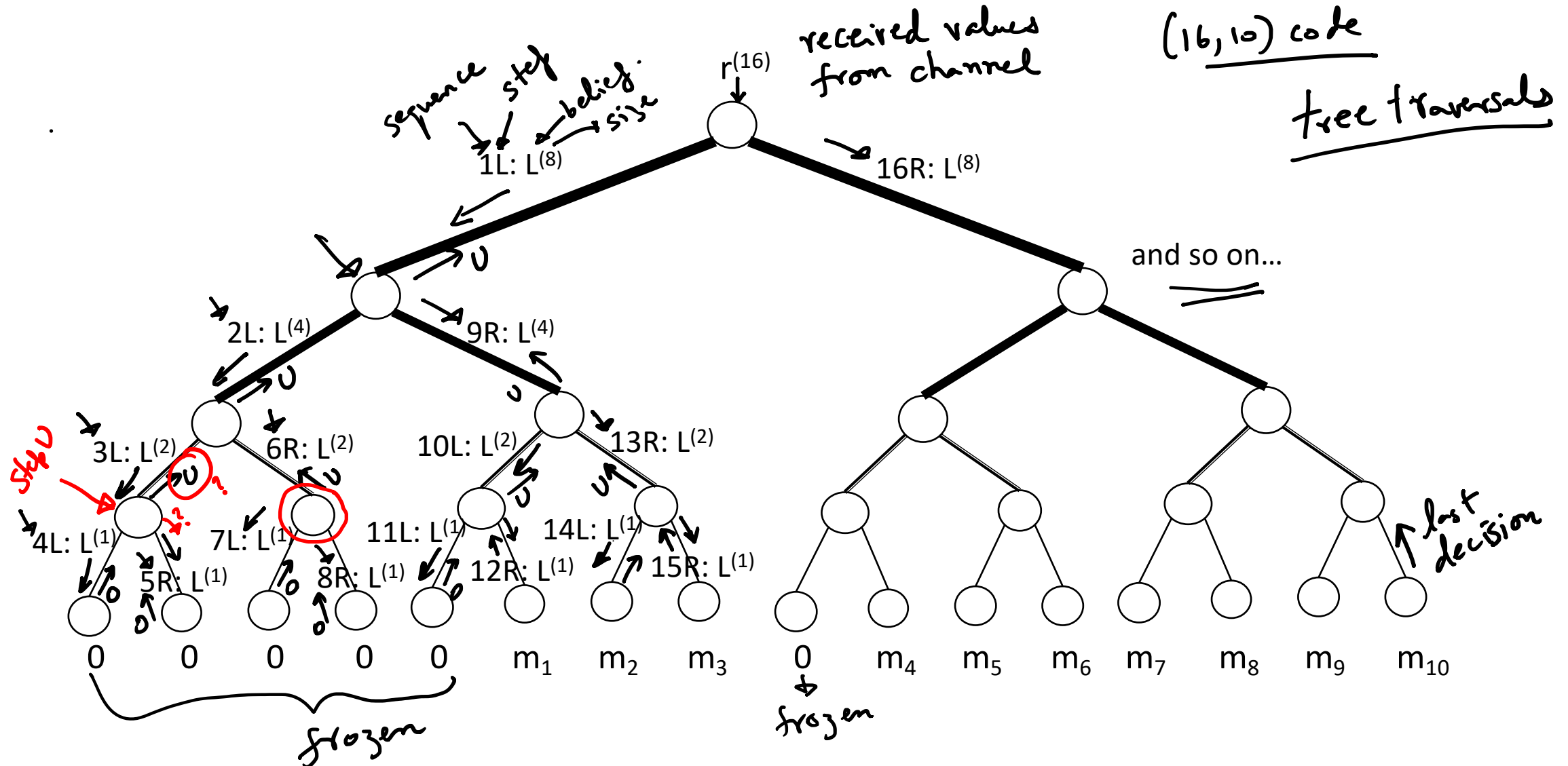




Polar Codes

Successive Cancellation Decoding

SC decoder example: sequence of operations



Binary tree representation

$n = 4, N = 2^4 = 16$
depth d : nodes 0 to $2^d - 1$ (left to right)

node n at depth d
left child: $2n$ at $d+1$
right child: $2n+1$ at $d+1$
parent: $\lfloor \frac{n}{2} \rfloor$ at $d-1$

$d=0$

$d=1$

$d=2$

$d=3$

$d=4$

