

# Sequences of Yes/No Questions

# Binary Digits

Each digit is the sum of powers of two.

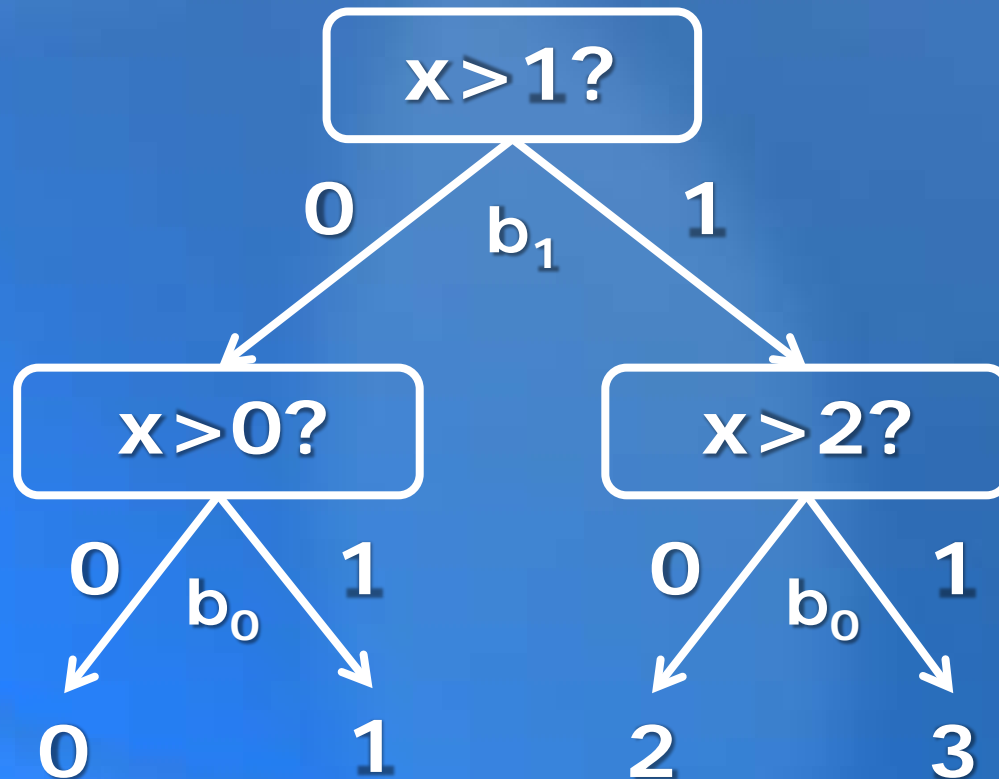
$$x = \sum_{i=0}^{N-1} 2^i \cdot b_i$$

**Example:  $N = 2$**

$$\begin{aligned} x &= 2^1 \cdot b_1 + 2^0 \cdot b_0 \\ &= 2 \cdot b_1 + b_0 \end{aligned}$$

<b>x</b>	<b>b<sub>1</sub></b>	<b>b<sub>0</sub></b>
0	0	0
1	0	1
2	1	0
3	1	1

# Sequence of Yes/No Questions



$x$	$b_1$	$b_0$
0	0	0
1	0	1
2	1	0
3	1	1

# Pick a Color

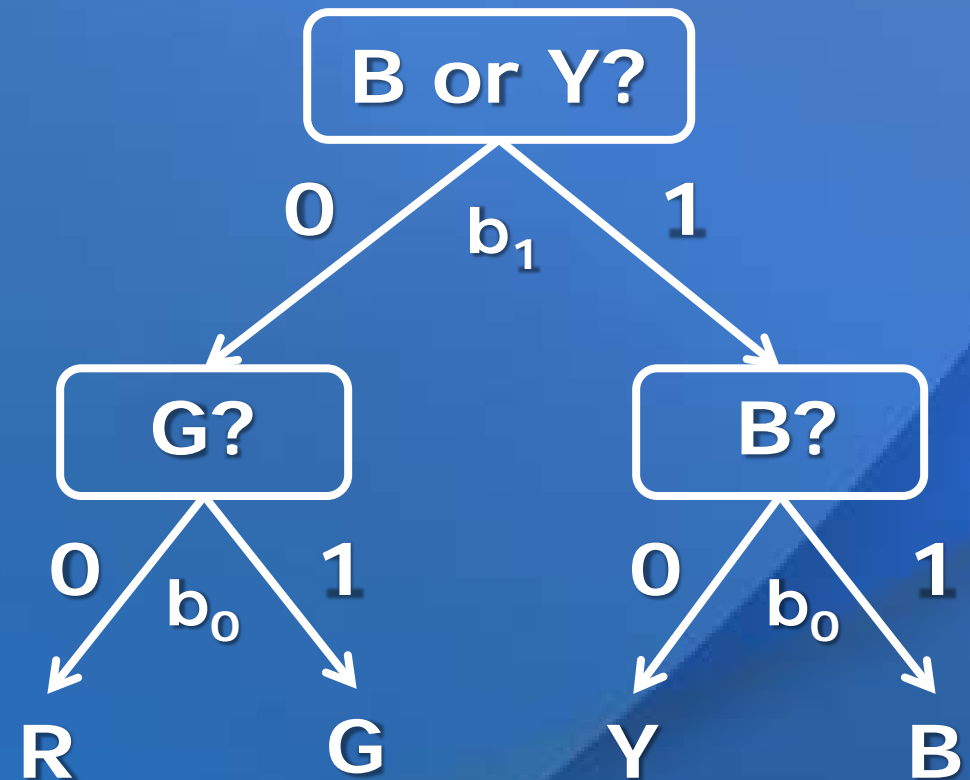
Pick a color below:

Blue

Yellow

Green

Red



# Pick a Color

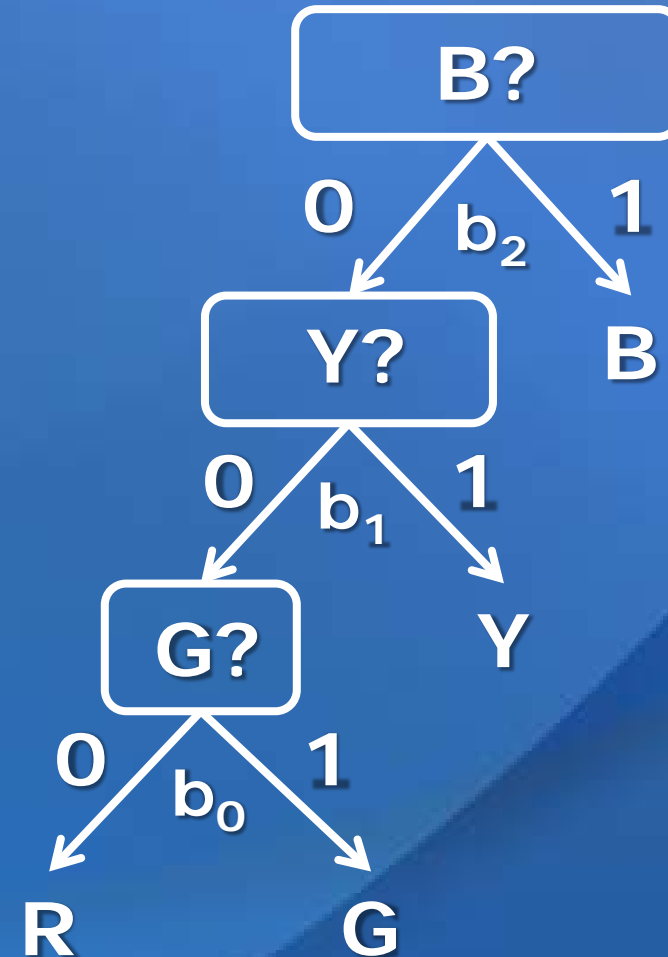
Pick a color below:

Blue #1

Yellow #2

Green #3

Red #4



# Two Strategies

