



$$\boxed{\text{red}} \neq \boxed{\text{green}} \Leftrightarrow \boxed{\text{red}} \text{ XOR } \boxed{\text{green}}$$

$$i_1 = \boxed{\text{red}} \text{ XOR } \boxed{\text{green}}$$

$$i_2 = \boxed{\text{red}} \text{ XOR } \boxed{\text{yellow}}$$

$$i_3 = \boxed{\text{red}} \text{ XOR } \boxed{\text{blue}}$$

$$i_4 = \boxed{\text{red}} \text{ XOR } \boxed{\text{black}}$$