

```
Write a class for the H bridge:
enum HbrigeState { direction_a, direction_b, no_current };
struct Hbridge
Hbridge(
  const HBridgeState initial state,
  const int pin direction a,
  const int pin direction b)
  : m pin direction a(pin direction a),
   m pin direction b(pin direction b),
   m_state_current(initial_state),
   m_state_next(initial_state),
 void ToDirectionA()
  //Go via state no current
  //MAGIC
 void ToDirectionB()
  //Go via state no current
  //MAGIC
void ToggleDirection()
  //Nothing will happen is currently state is no current
  //MAGIC
 void ToNoCurrent()
  digitalWrite(m_pin_direction_a,LOW);
  digitalWrite(m_pin_direction_b,LOW);
 private:
static const double m_frequency = /* determined in other task */; //Hz
const int m_pin_direction_a;
const int m_pin_direction_b;
HbridgeState m_state_current;
HbridgeState m_state_next;
```