```
 \left\{ \begin{array}{l} LED\_Init(\ ) \\ Doors\_Init(\ ) \\ Button\_Init(\ ) \\ Motor\_Init(\ ) \\ HAL\_UART\_Transmit(\ ) \end{array} \right. 
                                                                                        liftIsMoving()
\blacksquare lift.c
\blacksquare led.c
                                                                                        liftFloor( ) {liftIsMoving( )
\blacksquare doors.c
                                                                                   liftUp()/liftDown() \left\{ egin{array}{ll} CloseDoors() \ LED\_PWM\_Percent() \ Moving() \ HAL\_UART\_Transmit() \ HAL\_TIM\_Base\_Start\_IT() \end{array} 
ight.
button.c
motor.c
 \blacksquare stm32f4xx \ hal \ uart.c
\blacksquare stm32f4xx hal tim.c
 \blacksquare stm32f4xx \ hal \ cortex.c
                                                                                   liftStop() egin{cases} TurnOffLEDPWM() \ FirstFloor() \ GroundFloor() \ HAL\_UART\_Transmit() \ OpenDoors() \ HAL\_NVIC\_EnableIRQ() \end{cases}
```