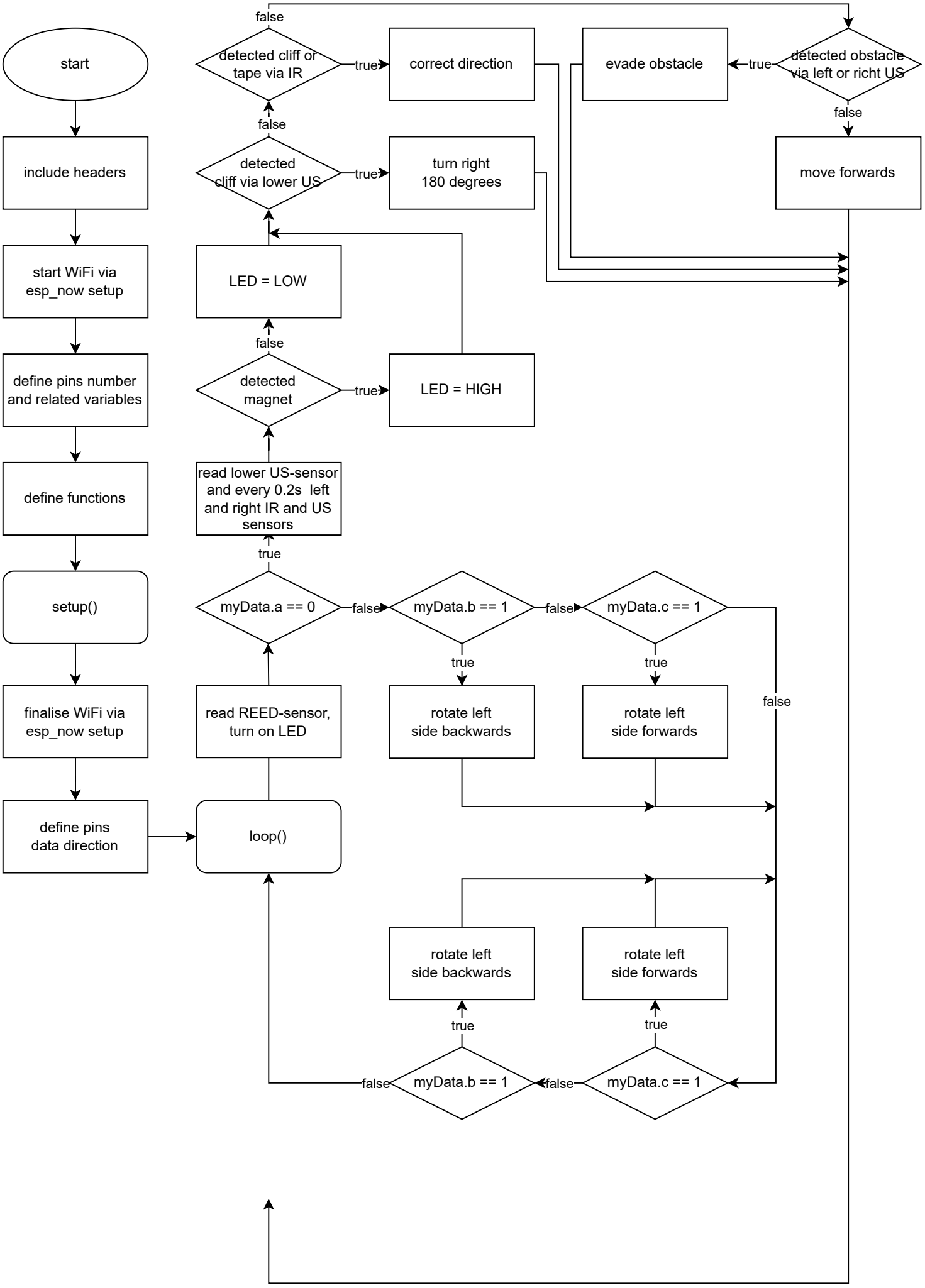
start
include headers
start WiFi via esp_now setup
define pins number and related variables
define functions
setup()
finalise WiFi via esp_now setup
define pins data direction
loop()
read REED-sensor, turn on LED
myData.a == 0
false
true
read lower US-sensor and every 0.2s left and right IR and US sensors
detected magnet
true
false
LED = HIGH
LED = LOW
detected cliff via lower US
true
false
turn right 180 degrees
detected cliff or tape via IR
true
false
correct direction
detected obstacle via left or richt US
true
false
evade obstacle
move forwards
myData.b == 1
false
true
rotate left side backwards
myData.c == 1
true
rotate left side forwards
false
rotate left side backwards
rotate left side forwards
true
true
myData.b == 1
false
myData.c == 1
false