#include "SysClock.h"

void System\_Clock\_Init(void) {

// Select MSI as system clock source

RCC->CFGR &= ~RCC\_CFGR\_SW; // [TODO] - Replace with value that will make MSI the system clock source

RCC->CFGR |= RCC\_CFGR\_SW\_MSI;

// Set MSI clock range

RCC->CR &= ~RCC\_CR\_MSIRANGE;

RCC->CR |= RCC\_CR\_MSIRANGE\_7; // [TODO] - Replace with value that will make range 8 MHz

// Use the MSI clock range that is defined in RCC\_CR

RCC->CR |= RCC\_CR\_MSIRGSEL; // [TODO] - Replace with value that will select range in RCC->CR

// Enable MSI oscillator

RCC->CR |= RCC\_CR\_MSIPLLEN; // [TODO] - Replace with value that will enable MSI

// Wait until MSI is ready

while((RCC->CR & RCC\_CR\_MSIRDY /\* [TODO] - Replace with value that checks whether MSI is ready \*/) == 0);

}