\\ecfile1.uwaterloo.ca\e2adam\My Documents\GitHub\MTE241_RTOS\src\osDefs.h

```
#ifndef
             OSDEFS H
3
    #include <stdint.h>
 4
   #include <stdio.h>
5
   #include <LPC17xx.h>
    #include <stdbool.h>
6
    //global constants
8
9
    #define MAX_STACK 0x2000
10
    #define STACK_SIZE 512
    #define MAX_THREADS ((MAX_STACK - STACK_SIZE)/STACK_SIZE)
11
12
   #define ACTIVE 0
13
   #define WAITING 1
14
15
   #define SLEEPING 2
16
17 #define DEADLINE DEFAULT 1000
18 #define DEADLINE_IDLE 500
19
20 #define YIELD_SWITCH 0
21
   #define SYSTICK SWITCH 1
22
23
    //define thread struct
24
    typedef struct{
     uint32_t* TSP; //store thread stack pointer
25
26
      void (*fun_ptr)(void); //store thread's function pointer
27
      int status;
28
29
     int timer; //in ms
30
     int period;
31
     int deadline;
32
33
   } threadStruct;
34
35
   #endif
```