```c
1    #ifndef  __KERNELCORE_H
2
3    #include <stdint.h>
4    #include <stdio.h>
5    #include <LPC17xx.h>
6
7    #define SHPR3 *(uint32_t*)0xE000ED20 //location of the PendSV priority register
8    #define ICSR *(uint32_t*)0xE000ED04 //location of the ISCR
9
10   void kernelInit(void); //initialize memory structures and interrupts necessary to run the kernel
11
12   void osSched(void); //called by the kernel to schedule which threads to run
13
14
15   #endif
```