Task delay:

Delay a task for a given number of ticks. The actual time that the task remains blocked depends on the tick rate. The constant portTICK_PERIOD_MS can be used to calculate real time from the tick rate - with the resolution of one tick period. (specifies a time at which the task wishes to unblock relative to the time at which (is called. For example, specifying a block period of 100 ticks will cause the task to unblock 100 ticks after (is called. (does not therefore provide a good method of controlling the frequency of a periodic task as the path taken through the code, as well as other task and interrupt activity, will effect the frequency at which (gets called and therefore the time at which the task next executes. See (for an alternative API function designed to facilitate fixed frequency execution.

```
void vTaskFunction( void * pvParameters )
{
    /* Block for 500ms. */
    const TickType_t xDelay = 500 / portTICK_PERIOD_MS;

    for( ;; )
    {
        /* Simply toggle the LED every 500ms, blocking between each
toggle. */
        vToggleLED();
        vTaskDelay( xDelay );
    }
}
```

File: task.h

```
void vTaskDelay( const TickType_t xTicksToDelay );
```