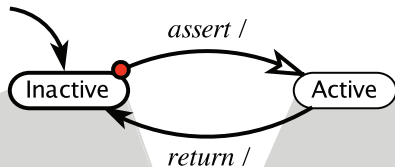**input:** *assert*, *return* : pure


```c
int main(void) {
    // initialization code
    SysTickIntRegister(&ISR);
    … // other init
    timerCount = 2000;
    while(timerCount != 0) {
     … code to run for 2 seconds
    }
}
```

```c
volatile uint timerCount = 0;
void ISR(void) {
    … disable interrupts
    if(timerCount != 0) {
        timerCount--;
    }
    … enable interrupts
}
```