Steps for Interrupt Configuration

- 1. At the start of you program you should call the InstallTable function. This function is responsible to install you interrupt table
 - a. Use the following command: bl Interrupt_Install_Table
 - b. This function should be the same as the one in the exercise. Make sure you push all your registers to the stack.
- 2. After that you need to enable IRQ line in CPSR register and IRQ table
 - a. Update timer value. This will be current time + delay
 - b. For IRQ
 - i. Load the value in 0x3F00B210 and put it in r0
 - ii. Move 10 to r1 //10 since we are enabling IRQ line 1 and 3 you can also enable only 1
 - iii. Store the value of r1 in r0
 - c. Disable all other interrupts
 - i. Load the value in 0x3F00B214 and put it in r0
 - ii. Move 0 to r1
 - iii. Store the value of r1 in r0
 - d. For cpsr_c register
 - i. mrs r0,cpscr
 - ii. bic r0, #0x80
 - iii. msr cpsr_c, r0
- 3. For the IRQ function that should be executed when the interrupt is executed, you should do the following:
 - a. Test if timer1 did the interrupt
 - i. Load the values stored in 0x3F00B204 to r1
 - ii. Tst bit 2
 - iii. If result is zero go to e
 - b. Check if the game was paused
 - i. You should have a label in memory where you store in it if the game is paused or not
 - ii. If paused you go to e
 - c. If a,b,c are all valid you draw your value pack.
 - d. Enable CS timer Control
 - i. Load the value stored in 0x3F003000
 - ii. Put 1 in bit 1 and the rest are zeroes
 - e. Update time in C1
 - f. Repeat (2)
 - g. Then subs pc, lr, #4