

EE 1910

Dr. Johnson

Program 12

No capabilities beyond those
discussed in class or in the notes
are allowed

Write a program to load up a 10 element array given a starting value and an increment value. Then print the array values. Use the following function prototypes:

```
void fill_ary(int start, int increment, int num_elements, int the_ary[]);  
void print_ary(int num_elements, int the_ary[]);
```

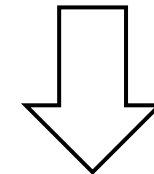
You must run this as an MSP project for Debug to work properly

- Run the program once with the values 10 and 2
- Debug the program and stop between the fill_ary function and the print_ary functions. Provide a printout of the debug screen with the array values expanded (use 20 and -3 for the inputs)

End up with something like this for part a

```
Class_MSP_Project:CIO  
[CORTEX_M4_0]  
  
Programming HW 12  
Welcome to Dr Johnson's array and debug program  
  
Please enter the array starting value and the increment: 10 2  
|  
The array values are: 10 12 14 16 18 20 22 24 26 28
```

Your name



End up with something like this for part b

The screenshot displays the Code Composer Studio interface during a debug session. The main window shows the source code for `programming_12.c`. The `main` function is currently executing at line 49, where `print_ary(num, my_ary);` is called. The `Console` window shows the program's output, including the prompt "Please enter the array starting value and the increment: 20 -3".

The `Variables` window provides a detailed view of the program's state:

Name	Type	Value	Location
increment	int	-3	0x2000FFFA
my_ary	int[10]	[20, 17, 14, 11, 8, 5, 2, -1, -4, -7, 20]	0x2000FFC8
my_ary [0]	int	20	0x2000FFC8
my_ary [1]	int	17	0x2000FFCC
my_ary [2]	int	14	0x2000FFD0
my_ary [3]	int	11	0x2000FFD4
my_ary [4]	int	8	0x2000FFD8
my_ary [5]	int	5	0x2000FFDC
my_ary [6]	int	2	0x2000FFE0
my_ary [7]	int	-1	0x2000FFE4
my_ary [8]	int	-4	0x2000FFE8
my_ary [9]	int	-7	0x2000FFEC
start	int	20	0x2000FFFA