

Homework 6. Loops and Arrays in C

Due: **Friday 3/10** midnight on Canvas

The purpose of this homework is to practice loops and arrays in C programming.

1) Read EdX Chapters 7 and 9: all sections; watch the videos

<http://users.ece.utexas.edu/~valvano/Volume1/E-Book/>

Problem6.1: Solve Lab4 in C and submit screenshot showing your logic analyzer window with all 5 duty-cycles and your C source code showing your DebugCapture function. Find the starter file here: <http://users.ece.utexas.edu/~valvano/Volume1/Homework6.zip>

Problem6.2: Write a function (`most_freq`), that takes an array of numbers and finds out the most frequently occurring value in the array.

```
int most_freq (int* input, int size);

void main()
{
    int array[10] = {1,2,2,3,3,3,7,8,9,3};
    int freq = most_freq(array, 10);
    print(freq); // assume this prints to an LED screen or an output port
}
```