In-Section Exercises Sample Solutions - Week 2

CS50 — Fall 2012

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September 24, 2012

These are only sample solutions. More solutions are possible!

1.
```c
bool validTriangle(float x, float y, float z) {
    if(x <= 0 || y <= 0 || z <= 0)
        return false;
    if(x + y <= z || x + z <= y || y + z <= x)
        return false;
    return true;
}
```

2.
```c
char *descendArray(int *arr, int size) {
    for(int i = 0; i < size - 1; i++)
        if(arr[i] < arr[i+1])
            return "no";
    return "yes";
}
```

3.
```c
#include <cs50.h>
#include <stdio.h>
#include <ctype.h>

int main(int argc, char *argv[]) {
    char *phrase = GetString();
    bool capitalize = true;

    for(int i = 0; phrase[i] != '\0'; i++) {
        if(isalpha(phrase[i])) {
            if(capitalize) {
                phrase[i] = toupper(phrase[i]);
                capitalize = false;
            }
            else
                capitalize = true;
        }
    }

    printf("%s\n", phrase);
    return 0;
}
```