Zach Pratt CS350 2015-09-09

Prove difference in associative operations

```
#include <stdio.h>
#include <math.h>
float get_using_rightmost(float * p) {
        return 1+*p+*p+*p+*p+*p+*p+*p+*p+*p;
}
float get_using_leftmost(float * p) {
        }
int main() {
        float p = pow(10, -7);
        float rightmost = get_using_rightmost(&p);
        float leftmost = get_using_leftmost(&p);
        printf("We are currently adding to one the number: %.20f\n", p);
        printf("Addition using rightmost associativity came to: %.20f\n", rightmost);
printf("Addition using leftmost associativity came to: %.20f\n", leftmost);
        if (leftmost != rightmost) {
                printf("\nCongratulations! The results are not the same!\n\n");
                printf("The results are the same.\n");
}
```

We are currently adding to one the number: 0.00000010000000116861
Addition using rightmost associativity came to: 1.00000131130218505859
Addition using leftmost associativity came to: 1.00000119209289550781
Congratulations! The results are not the same!