Algorithm - Week 4 Assignment

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float f(int n, float x) \{ //n > 1, x!=0 \}
     float s = 1;
                                              C1: 1
     for (int i = 1; i<=n; i++) {
                                              C2: (n + 1)
         float p = 1;
                                              C3: n
         for (int j = 1; j \le i; j++) C4: (i+1), \sum_{i=1}^{n} (i+1) = 1+...+(n+1) = \frac{n(n+2)}{2}
                                             C5: i, \sum_{i=1}^{n} (i) = 1 + ... + n = \frac{n(n+1)}{2}
              p = p * x / j;
                                              C6: n
         s = s+p;
                                              C7: 1
    return s;
}
T(n) = 1 + n+1 + n + \frac{n(n+2)}{2} + \frac{n(n+1)}{2} + n + 1 = 3 + 3n + n^2 + n = n^2
+ 4n + 3 \le 5n^2, \forall n \ge 1
Độ phức tạp của hàm trên là O(n^2) với C = 3 và nO = 1
```

I am truly sorry for always submitting the assignments later than the due date, I got work at night so I can't finish homework on time.