CSC 0340-05 Progamming Methodology Fall 2017

Assignment 2

Michael Winata

1. 
```
double sum_triples(double array[], int n) {
    double sum=0;                  // 1
    for (int i=0; i<n; i=i+3)      // k + 1
        sum = sum + array[ i ]; // k
    return sum;                    // 1
}
```

2. 
```
double sum_exponentials(int n){
    int sum=0;                     // 1
    for (int i=1; i<n; i=i*3)      // k + 1
        sum = sum + i;             // k
    return sum;                    // 1
}
```

3. 
```
for (int i=0; i<n; i++) {                  // n + 1
    for (int j=n; j>=i; j--)               // ( n ( n + 1 ) / 2 ) + 2n
        cout << i << "," << j <<endl;   // ( n ( n + 1 ) / 2 ) + n
}
```

4. 
```
for (int i=0; i<n; i++) { // n + 1
    for (j=n/2; j>i; j--)   // ( k ( k + 1 ) / 2 ) + 2k
        sum = i+j;         // ( k ( k + 1 ) / 2 )
}
```
5. 
```
void mult_matricies( double A[][n], double B[][p], double C[][p], int m, int n , int p ){
    for (int i=0; i<m; i++) {                    // m + 1
        for (int j=0; j<p; j++){                 // ( p + 1 ) ( m )
            C[i][j] = 0;                         // ( p ) ( m )
            for ( int k=0; k<n; k++) {           // ( p ) ( m ) ( n + 1 )
                C[i][j] += A[i][k] * B[k][j];    // ( p ) ( m ) ( n )
            }//for-k
        }//for-j
    }//for-i
}
```