CSC212 Tutorial #3
Performance Analysis-2

Question 1: Find the total number of primitive operations and the Big Oh notation of the following methods:

	Statements	S/E	Freq.	Total
1	`for (int i = 0; i < n-5; i++)`			
2	`  for (int j = n; j >= 2; j--)`			
3	`  S.O.P(i);`			
	Total Operations			
	Big Oh			

	Statements	S/E	Freq.	Total
1	`for (int i = 0; i < n; i++)`			
2	`  for (int j = 0; j <= i; j++)`			
3	`  S.O.P(i);`			
	Total Operations			
	Big Oh			

Question 2: Find the simplest *g(n)*, *c* and n_0 for the following *f(n)* s.t: *f(n)* ≤ *cg(n)*, ∀*n* ≥ n_0.

$5n^3 \log n + 20n^2 - 4n + 3$

Question 3: Find the big Oh notation for the following functions:

$2^{4logn+2} + n^3 logn$