Chapter 3

3.1 An algorithm of order $O(n^2)$ takes 5 seconds to compute answers for an input instance size $n = 10$. If the algorithm size is increased to 50, how much time will it take?

Solution:

$$C(10^2) = 5$$

$$\therefore C = \frac{5}{10^2}$$

If the algorithm size is increased to 50, then, $C(50^2) = x$

$$\therefore x = \frac{5}{10^2} \times 50^2 = \frac{5}{100} \times 2500 = 125 \ Seconds$$

3.2 Write algorithm for the following problems. Use step count and operation count for finding run time.

a) Matrix addition

The base code is given as follows:	step	frequency	step X frequency
for i = 1 to n do	1	n+1	n+1
for j = 1 to n do	1	n+1	n(n+1)
c[i,j] = a[i,j] + b[i,j]	1	n(n+1)	n × n
end for	-	-	----
end for	--	---	-----

$$\therefore \ \text{Step Count} = (n+1)+n(n+1)+ n^2$$

$$= n+1+n^2+n+n^2 = 2n^2+2n+1$$

$$= O(n).$$

One can analyze this segment using operation count also. The

$$\text{Operation Count} = \sum_{i=1}^{n}\sum_{j=1}^{n}1 = \frac{n(n+1)}{2}.$$

Therefore, the asymptotic complexity analysis is $O(n^2)$.

b) Matrix multiplication

The base code is given as follows:	step	frequency	step X frequency
for i = 1 to n do	1	n+1	n+1

Design And Analysis Of Algorithms Chapter 3

Lei Shi

Design And Analysis Of Algorithms Chapter 3:

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