Q2.1)

Code segment below is an implementation of the matrix multiplication algorithm.

Cited from:

Kittitornkun, S., & Hu, Y. H. (2001). Efficient implementation of nested-loop multimedia algorithms. *EURASIP Journal on Advances in Signal Processing*, 2001(3), 269324.

Listing 1. Matrix-matrix multiplication multiple times

```
Do i = 1 to 3

Do j = 1 to 3

c[i, j] = 0

Do k = 1 to 3

c[i, j] = c[i, j] + a[i, k] \times b[k, j]

EndDo k

EndDo j

EndDo i
```