CS 202, Fall 2018 Homework #4 – Hash Tables, Graphs

Ouestion1:

A- LINEAR

Slots	0	1	2	3	4	5	6	
Content	15	30	11	16	18		23	

B- QUADRATIC

Slots	0	1	2	3	4	5	6
Content	15	30	11	16	18		23

C- DOUBLE

Slots	0	1	2	3	4	5	6	
Content	15	16	11	30	18		23	

Question2:

```
A- topSort1(in theGraph:Graph, out aList:List) {

// Arranges the vertices in graph theGraph into a

// toplogical order and places them in list aList

n = number of vertices in theGraph;

for (step=1 through n) {

select a vertex v that has no predecessors;

aList.insert(1,v);

Delete from theGraph vertex v and its edges;
}
```

A-C-D-F-E-B-G

A-C-E-D-F-G-B