```
/**
* Title : Hash Tables, Graphs
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* Section : 2
* Assignment : 4
* Description : Report for the question1 and question 2
*/
```

Question 1.a)

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

Question 1.b)

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

Question 1.c)

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

Question 2.a)

```
topSort2( in theGraph:Graph):List {
s.createStack();
for (all vertices v in the graph theGraph){
if (v has no predecessors){
s.push(v);
Mark v as visited;
}
while (!s.isEmpty()){
if (all vertices adjacent to the vertex on top of the stack have been visited){
v = s.pop();
aList.add(0, v);
}
else{
Select an unvisited vertex u adjacent to vertex on top of the stack;
s.push(u);
Mark u as visited;
}}
return aList;
}
```

Question 2.b)

A C D B F E G

A C D F E G B