Part A | Q1:

```
Public    Digits (int num) [

for (int i = 0; i <= num.length( ); i++) [

this.digitList.add (new Integer(i, i+1) );

] // end for loop

] // end constructor method
```

Part B

```
Public   boolean IsStrictlyIncreasing( ) [

boolean temp = true;
if (this.digitList.size( ) == 0) [

for (int i = 0; i <= this.digitList.size(); i++) [

if (this.digitList.get(i) > this.digitList.get(i+1).) [

temp = false;

] // end 2nd if

] // end for loop

] // end 1st if statement

return temp;

] // end method
```

Part A | Q.2:

```
Public Static Position  findPosition (int num, int [ ][ ] IntArr) [

for (int i = 0; i < intArr.length; i++) [

for (int x = 0; x < intArr[0].length; i++) [

if (IntArr [i][x] == num) [

return  Position (i, x);

] else [

return  null;

]

] // end 2nd for loop

] // end for loop

] // end method
```

Part B

```
Public  Static  Position [ ][ ]  getSuccessorArray (int [ ][ ] intArr) [

Position [ ][ ] successorArray = new  Position [intArr.length][int[0].length];

for (int i = 0; i < successorArray.length; i++) [

for (int x = 0; x < successorArray[0].length; x++) [

successorArray[i][x] = findPosition (intArr[i][x]+1, intArr);

] // end 2nd for loop

] // end for loop

return  successorArray;

] // end method
```