

## Lab 7 – Exercise 2

### Create and Fill an Array

GIVENS: *(none)*

RESULT: *(none)*

INTERMEDIATES: a (*reference to an integer array*)

n (*number of elements in the array*)

ix (*index used to display the contents of the array*)

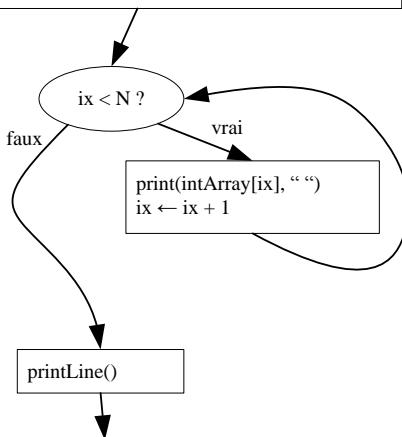
HEADER: main()

BODY:

```

(Get the data from the user)
print(<< Please enter the size of the array:: >>)
n ← readInteger()
(Call the algorithm to create the array)
intArray ← createIntegerArray(n)
(Display the results)
ix ← 0

```



GIVENS: n (*number of elements in the array*)

RESULT: arr (*reference to created array*)

INTERMEDIATES:

HEADER: arr ← createIntegerArray(n)

BODY:

```

arr ← makeNewArray(n)
initArray(arr, n)  (recursive algorithm)

```

GIVENS: arr *(reference to integer array)*  
n *(number of elements in the array)*

MODIFIED: arr

RESULT: (none)

HEADER: initArray(arr, n)

BODY:

