

## Loops YOU MUST KNOW

```
//Define and Initialize a 1D Array -----
boolean [ ] nodes = new boolean [9];

for (int x = 0; x < nodes.length; x++){
    nodes [x] = false;
}

//Define and Initialize a 2D Array -----
String [ ] [ ] myArray = new String [9][9];

for (int r = 0; r < myArray.length; r++){
    for (int c = 0; c < myArray[0].length; c++){
        myArray [r][c] = "n/a";
    }
}

//Define, Populate, and Print a 2D Array -----
int [ ] [ ] PRICES = {
    {00,20,50,50,20,30,00,60,00},
    {20,00,20,00,40,00,10,00,00},
    {00,00,00,30,30,80,60,70,00}
};

System.out.println("----- The Array -----");

for (int r = 0; r < PRICES.length; r++){
    for (int c = 0; c < PRICES[0].length; c++){
        System.out.print(PRICES[r][c] + " ");
    }
    System.out.println("");
}

//How to pass an array to a function -----
int [ ] [ ] myArray = new int [9][9];
initializeArray(myArray);
... ..
private static void initializeArray(int [][] theArray) {    //etc
```