Arrays

Arrays initialization (1)

```
int[] arr = new int[5];
arr[0] = 5;
arr[1] = 5;
arr[2] = 5;
arr[3] = 5;
arr[4] = 5;
```

Arrays initialization (2)

```
int[] arr = new int[5];
for (int i = 0; i < arr.length; i++)
    arr[i] = 5;
```

Arrays initialization (3)

```
int[] arr = { 5, 5, 5, 5, 5 };
```

Arrays initialization (3)

```
int[] arr = new int[5];
Arrays.fill(arr, 5);
```

Arrays Class

- Arrays.fill
- Arrays.copyOf & Arrays.copyOfRange
- Arrays.setAll (JDK 8, in the future)
- Arrays.equals
- Arrays.sort
- Arrays.binarySearch
- Arrays.toString

fill

```
int[] arr = new int[5];
Arrays.fill(arr, 5);
```

copyOf & copyOfRange

```
int[] original = { 1, 2, 3, 4, 5 };
int[] copy = Arrays.copyOf(original, original.length);
int[] copyExtended = Arrays.copyOf(original, original.length * 2);
int[] copyOfARange = Arrays.copyOfRange(original, 0, 2);
```

equals

```
int[] arr1 = { 1, 2, 3, 4, 5 };
int[] arr2 = Arrays.copyOf(arr1, arr1.length);
int[] arr3 = { 5, 4, 3, 2, 1 };
System.out.println(Arrays.equals(arr1, arr2)); //true
System.out.println(Arrays.equals(arr1, arr3)); //false
```

sort & binarySearch & toString

```
int[] arr1 = { 4, 3, 5, 1, 2 };
Arrays.sort(arr1);
System.out.println(Arrays.toString(arr1));
System.out.println(Arrays.binarySearch(arr1, 3));

//Output:
//[1, 2, 3, 4, 5]
//2
```