- Ordered
- Unordered

An Array-based Container

The Class java.lang.Boolean

Overview
```java
    {
        public static boolean getBoolean(String name);
        public static boolean getValue(String s);
        public boolean booleanValue();
        public int intValue();
        public boolean equals(Object obj);
        public String toString();
        public boolean equals(String s);
        public boolean booleanValue(true);
    }

    public final class Boolean
    {
        // Objects of type Boolean represent primitive values of type boolean.
    }
```

The Class **Java.Lang.Boolean**
```java
{
    firstEmptyPair++;  
    pairs[firstEmptyPair] = new Pair(key, value);  
    
    pairs = newPairs;  
    newPairs[i][1] = pairs[i][1]++;  
    for (i = 0; i < pairs.length; i++)  
        newPairs = new Pair[pairs.length];  
    }  
    int i;  
    if (firstEmptyPair == pairs.length)  
    }  
}
```

What is the cost of insertion?

**An Array-based Container**
```java
private int findIndex(int[] elements, int key) {
    int to = elements.length - 1;
    int from = 0;
    while (to > from) {
        int mid = (to + from) / 2;
        switch (compare(elements[mid], key)) {
            case ORDERED.LESS: to = mid; break;
            case ORDERED.GREATER: from = mid; break;
            case ORDERED.EQUAL: return mid;
        }
    }
    return from;
}
```

• What is the cost of finding the index?