

Arrays

Big O:

- space $O(n)$
- time
 - access worst $O(1)$, average $O(1)$
 - search worst $O(n)$, average $O(n)$
 - insert worst $O(n)$, average $O(n)$
 - delete worst $O(n)$, average $O(n)$

ArrayList (Dynamically Resizing Array):

```
public ArrayList<String> merge(String[] words, String[] more) {  
    ArrayList<String> sentence = new ArrayList<String>();  
    for (String w : words) sentence.add(w);  
    for (String w : more) sentence.add(w);  
    return sentence;  
}
```

Notes:

- index starts with 0

Sources:

- <https://www.coursera.org/lecture/data-structures/arrays-0sBSF>