

Lists and Arrays (Teacher Version)

Corresponding Material

Data Structures, Lesson 1: Intro to Lists/ Arrays

Discussion

Lists (also called arrays) are an important data structure in computer science. We can keep track of an ordered collection of items in a list. The ability to store and access items in a list allows us to build much more interesting programs.

Class Exercise

The best way to learn to use arrays is to practice!

1. Write out a list of your five favorite foods here:

| My Favorite Foods |
|----------------------|
| 1. Burritos |
| 2. Bananas |
| 3. Pizza |
| 4. Hummus |
| 5. Fried Rice |

2. Fill in the blanks with the items from your favorite foods list:

```
var favoriteFoods = ["    Burritos    ", "    Bananas    ", "    Pizza    ",  
"    Hummus    ", "    Fried Rice    "];
```

3. Use indexing to find specific items in your list.

a. Find the first item: **favoriteFoods[0]**

b. Find the last item: **favoriteFoods[4]**

c. Find the third item: **favoriteFoods[2]**

4. Use indexing to replace specific items in your list:

a. Replace the second item with "popcorn": **favoriteFoods[1]="popcorn"**

b. Replace the last item with a friend's favorite food: **favoriteFoods[4]="shrimp"**