We want to write a function called mySum() which will take in a list of integers and will return the sum of all ints in the list. We dont want to use the sum() function itself

```
def mySum(array):
	count = 0
	for item in array:
		count += item
	return count
```

We want to write a function called print_longest() which will take in 2 strings and will return the string that is the longest. If both strings are the same length then we want to return both strings.

```
def print_longest(str1, str2):
	If len(str1) == len(str2):
		return str1, str2
	elif len(str1) > len(str2):
		return str1
	else:
		return str2
```

We want to write a function called checkDup() which will take in a list and return True if all items in the list are unique and false otherwise.

```
def checkDup(array):
	newList = []
	for item in array:
		if item not in newList:
			newList.append(item)
	if len(newList) == len(array):
		return True
	return False

def checkDup(array):
	newList = []
	for item in array:
		if item not in newList:
			newList.append(item)
	return len(newList) == len(array)




def checkDup(array):
```

```
    check = {}
    for item in array:
        if item not in check:
            check[item] = 1
        else:
            return False
    return True
```

We want to write a function called distinctSum() which will take in a List of ints and will return the sum of all unique items in the list

```
def distinctSum(array):
    check = []
    for item in array:
        if item not in newList:
            check.append(item)
    return sum(check)
```

We want to write a function called listIntersection() which takes in 2 lists of ints and will return a list of their intersection

```
def listIntersection(array1, array2):
    final = []
    for item in array1:
        if item in array2:
            final.append(item)
    return final
```