ASSIGNMENT 7

Write a python function that returns the index of the smallest element in a list of integers. If the number of such elements is greater than 1, return the smallest index. Use the following function header: def indexOfSmallestElement(lst):

In [ ]:
```
def indexOfSmallestElement(lst):
    if not lst:
        return None  # handle empty list case
    min_index = 0
    for i in range(1, len(lst)):
        if lst[i] < lst[min_index]:
            min_index = i
        elif lst[i] == lst[min_index]:
            if i < min_index:
                min_index = i
    return min_index
```

Write the python function mostCommonName, that takes a list of names (such as ["Ja ne", "Aaron", "Cindy", "Aaron"], and returns the most common name in this list (in this case, "Aaron"). If there is more than one such name, return a set of the most common names. So mostCommonName(["Jane", "Aaron", "Jane", "Cindy", "Aaron"]) returns the set {"Aaron", "Jane"}. If the set is empty, return None. Also, treat names case sensitive, so "Jane" and "JANE" are different names.

In [ ]:
```
def mostCommonName(names):
    name_counts = {}
    for name in names:
        if name in name_counts:
            name_counts[name] += 1
        else:
            name_counts[name] = 1
    max_count = max(name_counts.values())
    most_common_names = {name for name, count in name_counts.items() if count == ma
    if not most_common_names:
        return None
    return most_common_names
```

. Write the python function isPalindromicList(a) that takes a list and returns True if it is the same forwards as backwards and False otherwise.

In [ ]:
```
def isPalindromicList(a):
    return a == a[::-1]
```