## Problem Statement: Person names are searched and sorted using streams

**Person names have to be searched and sorted from the given collection of person names and age**

**This exercise contains PersonStreamOperations class with the following methods :**

+getPersonListSortedByNameInUpperCase(List<String>) : Optional<List<String>>

-Should return the sorted person list alphabetically in uppercase

-Should return empty Optional if given personList id empty or null

Sample Input :

["Kamala","Priyanka","Gautham","Moses"]

Output:

["GAUTHAM","KAMALA","MOSES","PRIYANKA"]

+getDistinctPersonNamesSortedInDescendingOrder(List<String>) : Set<String>

-Should return the distinct sorted person list in descending order

-Should return empty set if given personList is empty or null

Sample Input:

["Kamala","Priyanka","Moses","Kamala","Gautham"]

Output:

["Priyanka","Moses","Kamala","Gautham"]

+searchPerson(List<String>, String) : String

-Should search for a person ignoring case in the given list

-Should return "List or name to search cannot be null" if given personlist or nameToSearch is null or empty

Sample Input:

["Kamala","Priyanka","Gautham","Moses"] "Gautham"

Output:

Person found

+getPersonListSortedByLengthWithNameLengthGreaterThanFive(List<String>) :List<String> -Should filter the list whose name length is greater than five and sorts by name length

-Should retun empty list if given personList is empty or null

Sample Input:

["Kamala","Priyanka","Gautham","Moses"]

Output:

["Kamala","Gautham","Priyanka"]

+getPersonByMaxAge(Map<String, Integer>) : String

-Should return the person name having maximum age from the given map

-Should return "Give proper input not null" if given map is null or empty

Sample Input:

{"Gautham"=30,"Latha"=56,""Punith"=45}

Output:

Latha

## Instructions

* Avoid printing unnecessary values other than expected output as given in sample
* Take care of whitespace/trailing whitespace
* Do not change the provided class/method names unless instructed
* Follow best practices while coding