

QUESTION NO 1 Implementation of Enqueue using ArrayList .

Problem - 2

Replace ? with the specified type and implement removeDuplicate() method.

Detailed information about this problem is in the Task Part. Look at the given c ...Complete the task part. [6 points]

```
Public class RemoveDuplicates{  
    Public static void main(String[] args){  
        List<String> contacts = Arrays.asList("641-451-7865 John",  
                                              "641-471-999 Anne",  
                                              "641-345-7777 Dow",  
                                              "641-451-7865 John",  
                                              "641-451-8888 David",  
                                              "641-451-7865 John",  
                                              "641-451-1111 Smith",  
                                              "641-451-1111 Smith",  
                                              "641-451-8888 David",  
                                              "641-451-7865 John"  
                                              .....  
    }  
}
```

//Expected Output

{641-567-7865 = Mohan, 641-451-1111 = Smith, 641-345-7777 = Dave, 641-471-9999 =Anne,
641-451-8888 = David, 641-451-7865 = John, 641-471-7865 = Renuka}

Task Part

Observations from the above code: there are some duplicate elements in the List contacts ... because List interface allows duplicates. From the given contacts list take a sample input "641-451-7865 John", there are two fields in this given input. First input "641-451-7865" is contact number. Another input "John" is a name.

Perform the following to remove the duplicates

- Replace ? with suitable Map Interface which accepts <Key, Value> pair and does not allow duplicate values also does not allow null key and null values. Then choose the right data type for Key and Value.
- removeDuplicate() method, which accepts a contacts list as an argument and return ... collection as a result without duplicates. Write a code inside this method which inserts key and value to your Map collection. Here from the input take first word as a Key and next word as a Value. Example "641-451-7865 John" , 641-451-7865 is a Key and John is a value. Then store this Key and Value into the Map collection.
Hint from the API Map Interface Hierarchy
See the picture