

CSC148 Summer 2016 Quiz 09 (15 minutes)

First_name Last_name Lab_room#

Define a function `remove_duplicates`, which takes a sorted list, and returns a new list with the same items as the original, but without duplicates. Note that this function does not mutate the original list.

Important note: take advantage of the fact that the input list is sorted, to write an efficient code.

```
def remove_duplicates(lst):
    """
    Return a sorted list containing the same values as <lst>, but without
    duplicates.

    Precondition: <lst> is sorted.

    :param lst: a sorted list
    :type lst: list
    :rtype: list

    >>> remove_duplicates([1, 2, 2, 2, 3, 10, 10, 20])
    [1, 2, 3, 10, 20]
    """
    result = []
    if len(lst)>0:
        result.append(lst[0])
        for i in range(len(lst)-1):
            if lst[i] != lst[i+1]:
                result.append(lst[i+1])
    return result
```

