

Mock exam exercise

Write a function *RemoveDuplicates* that removes all duplicate characters from a string. For example, 'aaabbb' becomes 'ab' and 'abcbd' becomes 'abcd'

Solution

```
function [string2] = removeDuplicates (string)

% input = string with repeated characters, e.g. abcbd = string
% output = string without repeated characters, e.g. abcd = string2
% test the function in the command window using e.g. removeDuplicates('abcbd')

string2 = string(1);
duplicate = 0;
for i = string
    for j = string2
        if i == j
            duplicate = 1;
        end
    end
    if duplicate == 0
        string2 = [string2 i]; % only add character of string to string2 if
it is not a duplicate
    else
        duplicate = 0;
    end
end
end
```