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REG 5924  
BESE-4A

# Introduction:

In this assignment our main task was to implement following:

1. Copied Pointers
2. Owned Pointers
3. COW with Reference Counting
4. COW with Reference Linking

# Approach:

I implemented the Copied Pointers and Copied Pointer with RefCounting and Owned pointers. For these implementations, there is a constructor which copies the current pointer to another pointer and for reference counting it increments the reference count by 1 each time a copy is made. For the purpose Owned Pointer, the pointer of new object is made equal to the previous one so any changes in of them causes change in the other.How to run:

Run source.cpp in all three folders to see the output

1. CP\_RefCount
2. OwnedPointer
3. smartString

# Github Link:

https://github.com/waqasraza123/smart-string-implementation-in-cpp