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| A picture of a winding road and trees  document part I | project name  Image encryption and compression  Course  Algorithms analysis and design |

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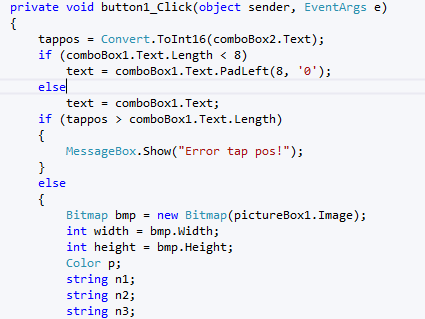
[ Encryption and Decryption 3](#_Toc500723360)

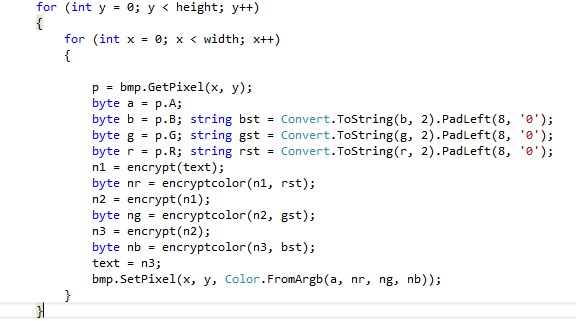
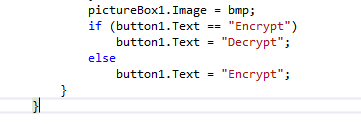
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* Encryption and Decryption andddddddddddddddddddddddddddddddddddddand

## Functions

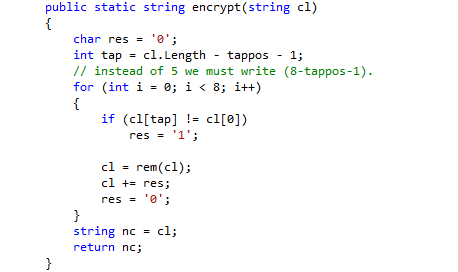


--We tried to decrease the running time as possible which is =ceta (height\*width) =>worst case =O(n^2)

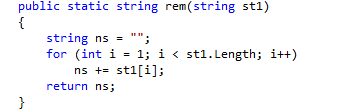
--Knowing that function encrypt color iterates till a constant value which is 8 so O(8)=1

The complexity for the if and else part=max(case1,case2)=o(1)

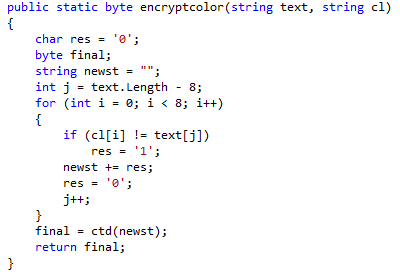


The complexity of the above function is O(8\*N)=O(N)

All other thing inside loop are O(1)



The complexity of the above function is O(N)



The complexity of that function is =O(8)=O(1) because each time iterating 8 times only



## outputs

