

**Programming Fundamentals**

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| GRADED LAB-03 | |
| **Topic** | Pointers |
| **Objective** | * Using of pointer with functions |

**SECTION-A**

**Question No: 01**

Wrtite a C++ program which reads character data from a file (fileName: input.txt) using function (Name: readAllData()) in a char type array. This file contains a mixture of captial and lower case letters. Write a function (Name:SortChars()) which takes pointer to this array as paramter and move all captial letters at starting side(Left side) of array whereas all small letters at ending side (right side) of array.

**Note:** *Sequence of letters (in same case) should not be disturbed.*

**Sampe Output**

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| |  | | --- | | **Input.txt** | | **Z**  **m**  **J**  **T**  **s**  **y**  **p**  **q**  **R**  **s**  **t**  **Z**  **a** | | **Array:**  0 1 2 3 11 12 13 14 15   |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | **Z** | **m** | **J** | **T** | **s** | **y** | **. . .** | **Z** | **a** |  |  |  |   **Output:**  0 1 2 3 11 12 13 14 15   |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | **Z** | **J** | **T** | **P** | **R** | **Z** | **. . .** | **t** | **a** |  |  |  | |