Business and Computer University College

1. Write a program that uses a function to find the maximum of three integers using call by reference.

2. Write a program that calls a function to swap two characters and print them in the new form using call by reference.

3. Write a program that calls a function to input the elements of an array of size 10, and print them from the main.

4. Write a program that sorts the elements of an array using the following function:

   Void sort (int *ptr, int size).

5. Write a function that uses pointers to calculate the array C that is equal to the sum of the arrays A and B that are of the same type and size N (C[k]=A[k]+B[k]). All arrays must be stored in the heap. The function prototype is:

   Void copy(int *A, int *B, int *C, int N)

   Modify this prototype by specifying constant pointers and/or data when appropriate.

6. Write a function that uses pointers to copy an array A into an array B in reverse order (the first element of A is assigned to the last element of B, etc…). The two arrays have the same type and size N and stored in the heap. The function prototype is:

   Void copy(int *A, int *B, int N)

   Modify this prototype by specifying constant pointers and/or data when appropriate.