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/*PROGRAM TO ARRANGE NUMBERS 15,9,11,7,12,1 AND 6 IN ASCENDING
ORDER*/
#include <stdio.h>

int main()
{
    printf("20BCS065  RAVI GOWRI JASWANTH\n");

    int i, j, temp;
    int a[6] = {15, 9, 11, 7, 12, 1};

    printf("Given array is: ");
    for (i = 0; i < 6; i++)
    {
        printf("%d ", a[i]);
    }
    printf("\n");

    for (i = 0; i < 6; i++)
    {
        printf("\nIteration %d, i=%d and j=%d to 7\n\n", i + 1, i,
i+1);
        for (j = i + 1; j < 7; j++)
        {
            for (int k = 0; k < 6; k++)
            {
                printf("%d ", a[k]);
            }
            printf("\t | j=%d", j);
            printf("\n");
            if (a[i] > a[j])
            {
                temp = a[i];
                a[i] = a[j];
                a[j] = temp;
            }
        }
    }

    printf("\nSorted array is: ");
    for (i = 0; i < 6; i++)
    {
        printf("%d ", a[i]);
    }
}

```