```cpp
#include<iostream>
using namespace std;
//prototype
//{ recursiveSort(int arr, int , int );}
int itr1 =0;
int itr2 =0;
int intval1, intval2, intval3, intval4;

int recursiveSort(int arr[], int itr1, int itr2)
{
    cout << "itr1:" << itr1 << " itr2:" << itr2 << " array:";
    cout << arr[0] << "," << arr[1] << "," << arr[2] << "," << arr[3] << endl;
    if (itr1<4)
    {if (arr[itr1]>arr[itr2])
        {int temp =arr[itr1];
        arr[itr1]=arr[itr2];
        arr[itr2]=temp;}

        //itr2++; //add 1 to itr2 (shift)

        if (itr2==3)
        {   itr1++;
            itr2 = 0;}
        else
        {itr2++;} //add 1 to itr2 (shift)
        if (itr1<4)

        recursiveSort(arr, itr1, itr2);
    }

        else
        return 0;

    return arr[0], arr[1], arr[2], arr[3];
}


int main() {

    int i, j;
    //int arr[4] = { intval1, intval2, intval3, intval4};
    cout << "Enter 4 integer values: ";
    cin >> intval1 >> intval2 >> intval3 >> intval4;
    int arr[4] = { intval1, intval2, intval3, intval4};
    recursiveSort(arr ,0 ,0 );
```

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    return 0;
}
```