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//Answer on Question #38344, Programming, C++

#include <cstdlib>
#include <iostream>

using namespace std;
void sort(int A[],int size,int type);
//main function
int main(int argc, char *argv[])
{
   int n1,n2;//variable for n1 n2
   cout<<"Enter total values for first array: ";
   cin>>n1;//read n1
   cout<<"Enter total values for second array: ";
   cin>>n2;//read n2
   //variable for arrays
   int firstArray[n1];
   int secondArray[n2];
   int n3=n1+n2;//calculate total number of values
   int mergeArray[n3];
   //enter values for first array
   cout<<"Enter values for first array:\n";
   for(int i=0;i<n1;i++){
     cout<<"Enter value "<<i<<": ";
     cin>>firstArray[i];
   }
   //enter values for second array
   cout<<"Enter values for second array:\n";
   for(int i=0;i<n2;i++){
     cout<<"Enter value "<<i<<": ";
     cin>>secondArray[i];
   }
   //sort first array
   sort(firstArray,n1,1);
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    //sort second array
    sort(secondArray,n2,2);
    //merge Array
    for(int i=0;i<n1;i++){
      mergeArray[i]=firstArray[i];
    }
    int count=0;
    for(int i=n1;i<n3;i++){
      mergeArray[i]=secondArray[count];
      count++;
    }
    //display the data from all the three arrays
    cout<<"Merge Array:\n";
    for(int i=0;i<n3;i++){
       cout<<mergeArray[i]<<" ";
    }
    //new lines
    cout<<"\n\n";
    system("PAUSE");
    return 0;
}
//function sort array
void sort(int A[],int size,int type){
   int temp;
   int i,j;
   for (i= 1; i<size; i++ ) {
       //loop to control number of comparisons per pass
      for (j = 0; j < size-1; j++ ) {
      // compare adjacent elements and swap them if first element is greater than second element
          if(type==1){
                  if (A[j] > A[j + 1]) {
                    temp = A[j];//swap elements for this use any variable temp
                    A[j] = A[j + 1];
                     A[j + 1] = temp;
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                }
        }
        if(type==2){
            if (A[j] < A[j + 1]) {
                temp = A[j];//swap elements for this use any variable temp
                A[j] = A[j + 1];
                A[j + 1] = temp;
            }
        }
    }
  }
}
```