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#include<iostream>
using namespace std;
#include<cstdlib>
#include<ctime>

void Swap(int& x, int& y);
void BubbleSort(int *A, int n);

int main()
{
    int n, min, max;
    cout << "Enter the array size : ";
    cin >> n;
    int* A = new int[n];
    srand(time(0)); //initializes random number generator

    //generates n (size of array inputted by user) random numbers between 0 and 99
    for( int i = 0; i < n; i++)
        A[i] = rand()%100;

    cout << endl;

    //sets min and max equal to first element of the array
    min = max = A[0];

    //determines the min and max values of an array
    for(int i = 1; i < n; i++)
    {
        if(A[i] < min)
            min = A[i];
        if(A[i] > max)
            max = A[i];
    }

    cout << "The min is " << min << endl;
    cout << "The max is " << max << endl ;

    BubbleSort(A,n);
    for(int i = 0; i < n; i++)
        cout << A[i] << " ";

    delete[] A;
    return 0;
}

//swaps two vslues
void Swap(int& x, int& y)
{
    int tmp;
    tmp = x;
    x = y;
    y = tmp;
}

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}  
  
//puts array in ascending order  
void BubbleSort(int *A, int n)  
{  
    for(int p = n-1; p>0; p--)  
        for(int i = 0; i<p; i++)  
            if(A[i] > A[i+1])  
                Swap(A[i],A[i+1]);  
}
```