|  |
| --- |
| #include <iostream> |
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|  |
| --- |
| using namespace std; |
|  |

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| --- |
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|  |
| --- |
| void printArray(int arr[], int size) |
|  |

|  |
| --- |
| { |
|  |

|  |
| --- |
| for (int i=0;i<size;i++) |
|  |

|  |
| --- |
| { |
|  |

|  |
| --- |
| cout<<arr[i]<<endl; |
|  |

|  |
| --- |
| } |
|  |

|  |
| --- |
| } |
|  |

|  |
| --- |
| void swap(int \*x, int \*y){ |
|  |

|  |
| --- |
| int temp = \*x; |
|  |

|  |
| --- |
| \*x = \*y; |
|  |

|  |
| --- |
| \*y = temp; |
|  |

|  |
| --- |
| } |
|  |

|  |
| --- |
| void bubble\_sort(int arr[], int size){ |
|  |

|  |
| --- |
| for (int i=0; i<size-1; i++){ |
|  |

|  |
| --- |
| for (int j=0;j<size-1;j++){ |
|  |

|  |
| --- |
| if(arr[j]>arr[j+1]){ |
|  |

|  |
| --- |
| swap(&arr[j],&arr[j+1]); |
|  |

|  |
| --- |
| } |
|  |

|  |
| --- |
| } |
|  |

|  |
| --- |
| } |
|  |

|  |
| --- |
| } |
|  |

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| --- |
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|  |

|  |
| --- |
| int main() |
|  |

|  |
| --- |
| { |
|  |

|  |
| --- |
|  |
|  |

|  |
| --- |
| cout<<"Bubble sort"<<endl; |
|  |

|  |
| --- |
| int arr[]= {1,23,54,2,3,56,6,0}; |
|  |

|  |
| --- |
| int size = sizeof(arr)/sizeof(arr[0]); |
|  |

|  |
| --- |
| bubble\_sort(arr, size); |
|  |

|  |
| --- |
| printArray(arr, size); |
|  |

|  |
| --- |
| return 0; |
|  |

}