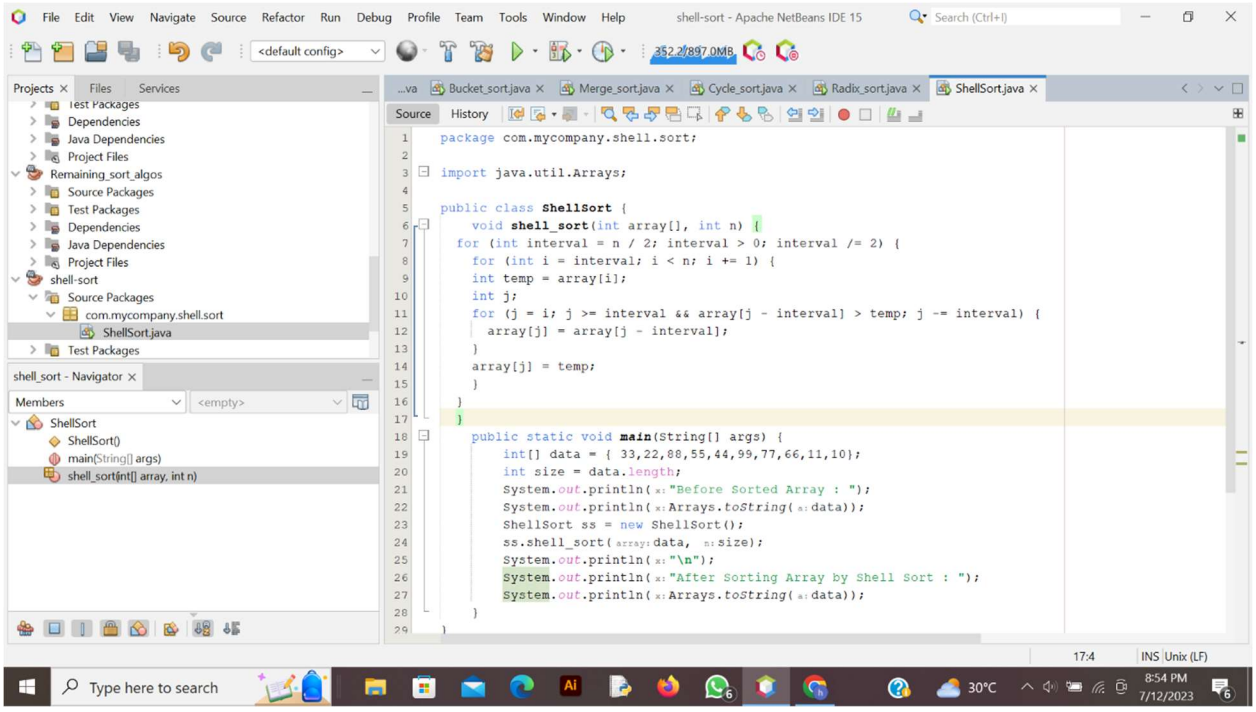
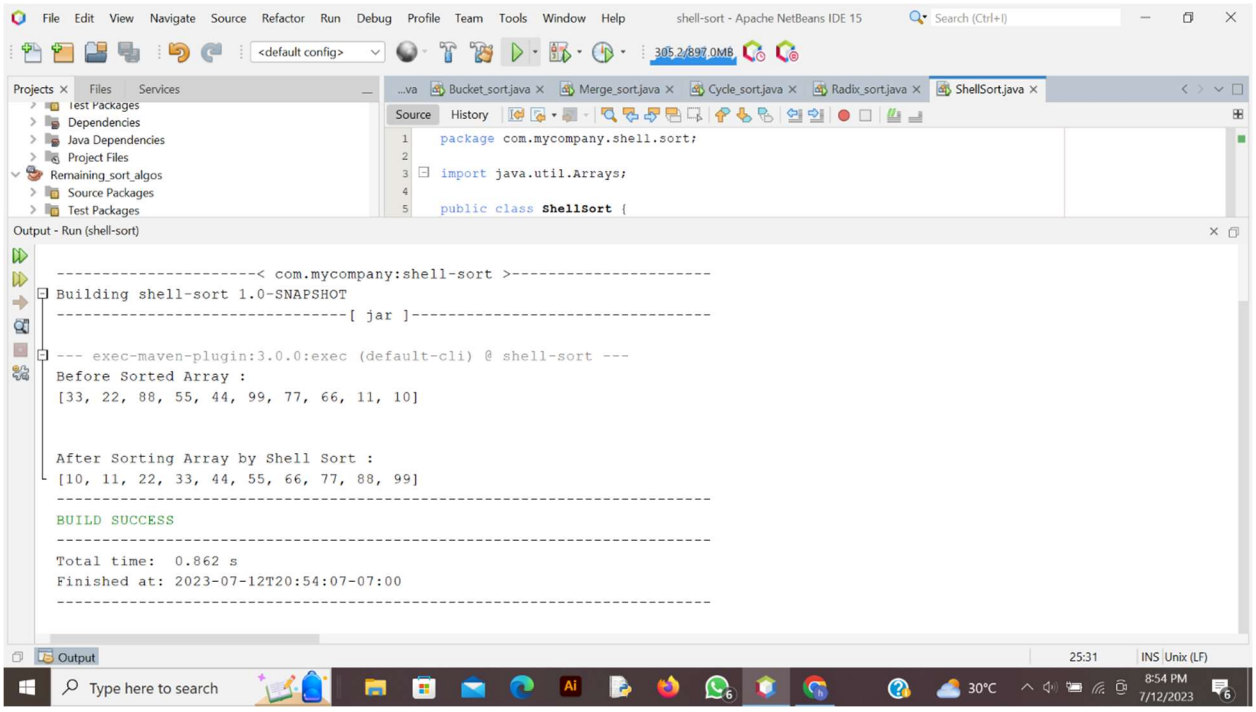
Today's Task (Sorting Algorithm)

Shell Sort

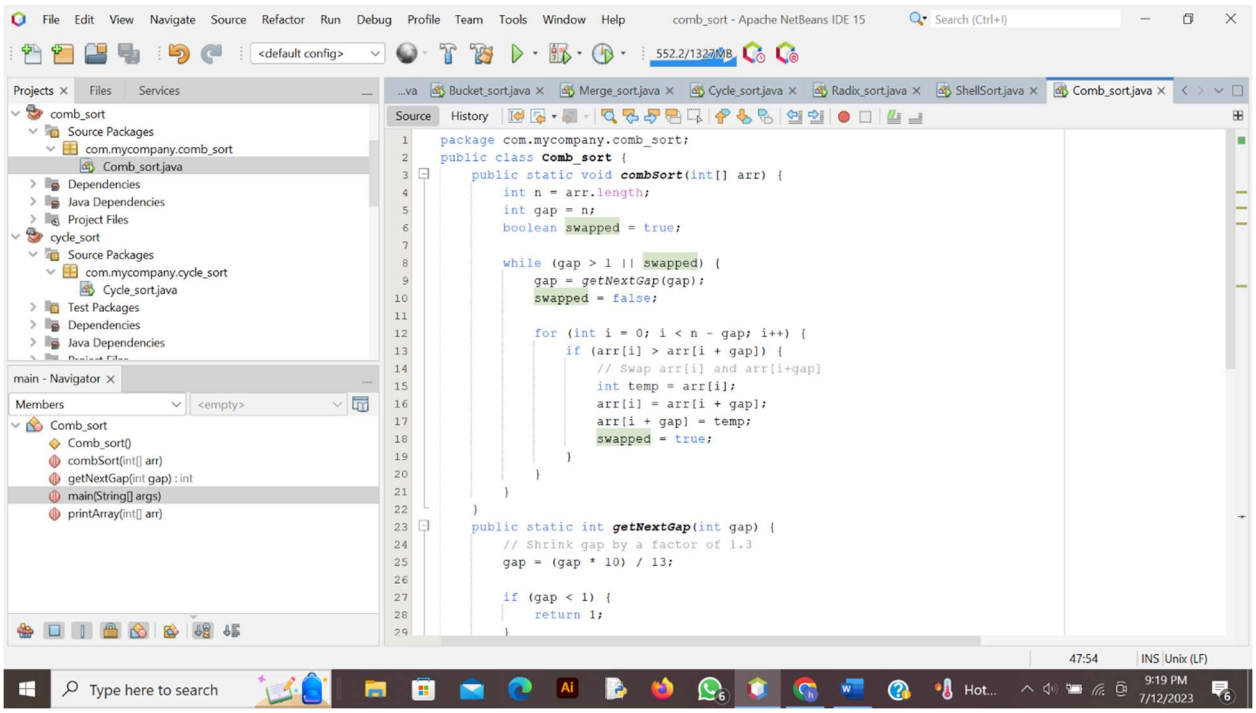


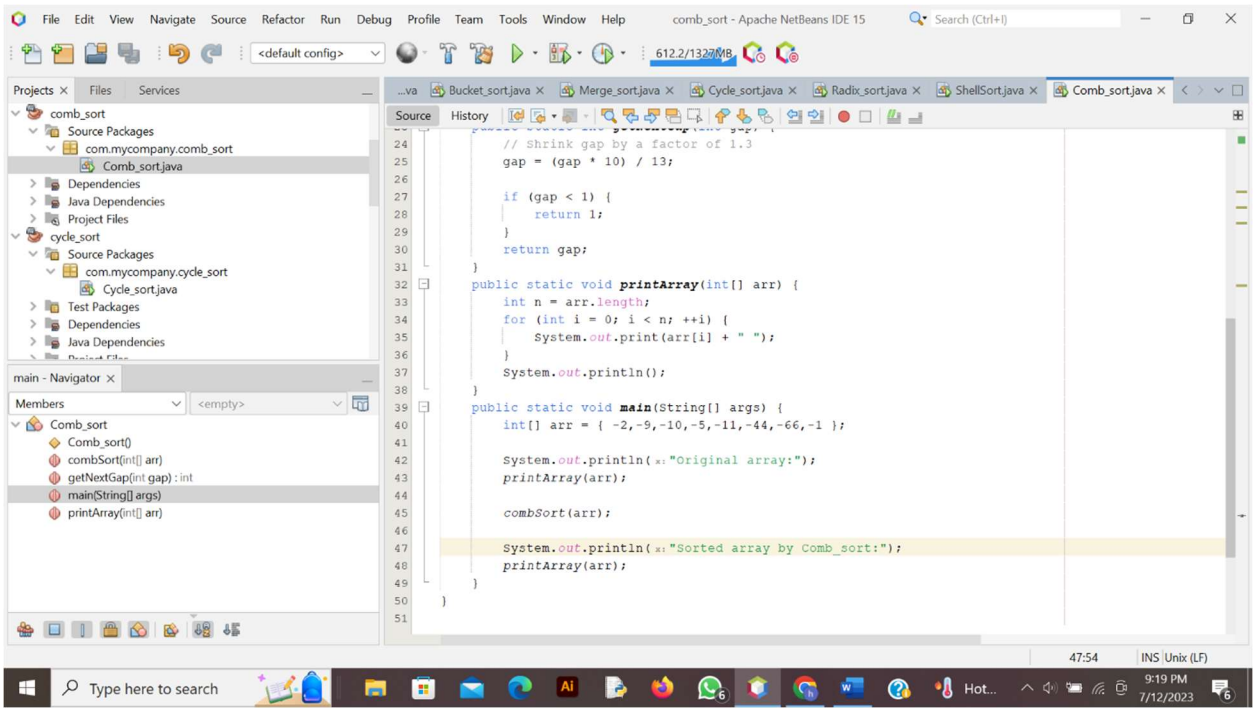
```
package com.mycompany.shell.sort;

import java.util.Arrays;

public class ShellSort {
    void shell_sort(int array[], int n) {
  for (int interval = n / 2; interval > 0; interval /= 2) {
    for (int i = interval; i < n; i += 1) {
    int temp = array[i];
    int j;
    for (j = i; j >= interval && array[j - interval] > temp; j -= interval) {
      array[j] = array[j - interval];
    }
    array[j] = temp;
    }
  }
  }
    public static void main(String[] args) {
        int[] data = { 33,22,88,55,44,99,77,66,11,10};
        int size = data.length;
        System.out.println( x: "Before Sorted Array : ");
        System.out.println( x: Arrays.toString( a: data));
        ShellSort ss = new ShellSort();
        ss.shell_sort( array: data,  n: size);
        System.out.println( x: "\n");
        System.out.println( x: "After Sorting Array by Shell Sort : ");
        System.out.println( x: Arrays.toString( a: data));
    }
}
```

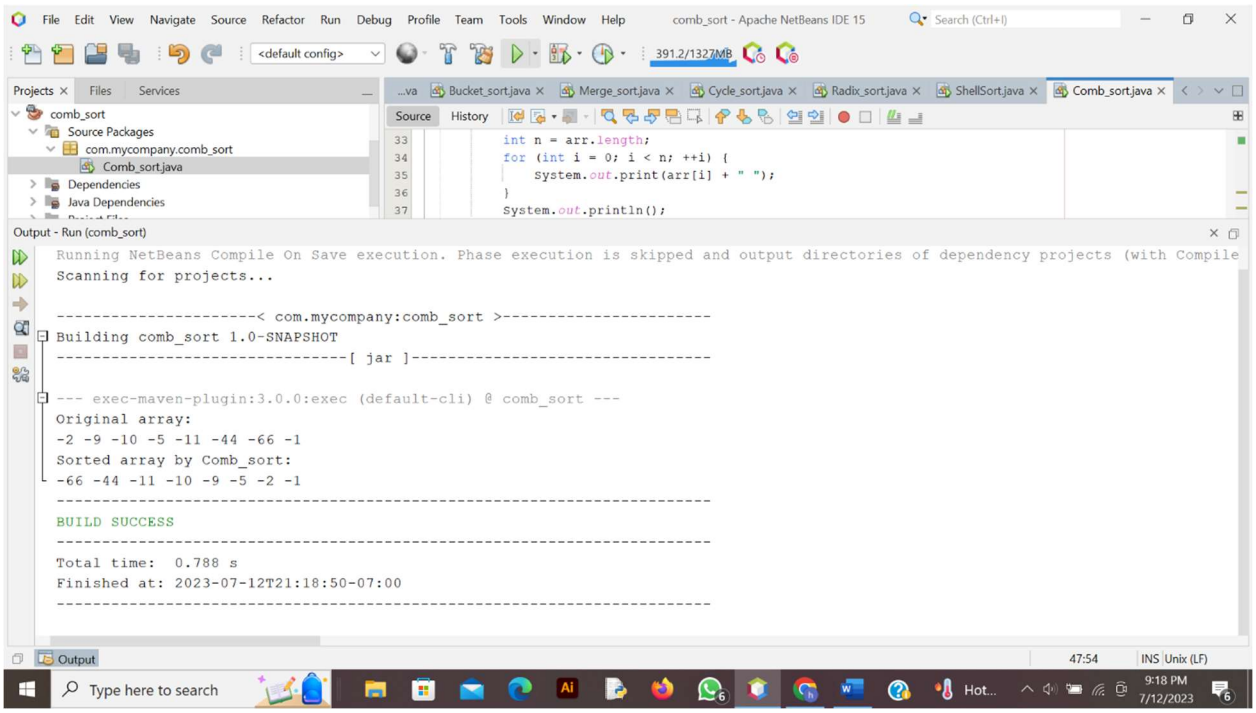


```
----------------------< com.mycompany:shell-sort >----------------------
Building shell-sort 1.0-SNAPSHOT
--------------------------------[ jar ]---------------------------------

--- exec-maven-plugin:3.0.0:exec (default-cli) @ shell-sort ---
Before Sorted Array :
[33, 22, 88, 55, 44, 99, 77, 66, 11, 10]


After Sorting Array by Shell Sort :
[10, 11, 22, 33, 44, 55, 66, 77, 88, 99]
------------------------------------------------------------------------
BUILD SUCCESS
------------------------------------------------------------------------
Total time:  0.862 s
Finished at: 2023-07-12T20:54:07-07:00
------------------------------------------------------------------------
```

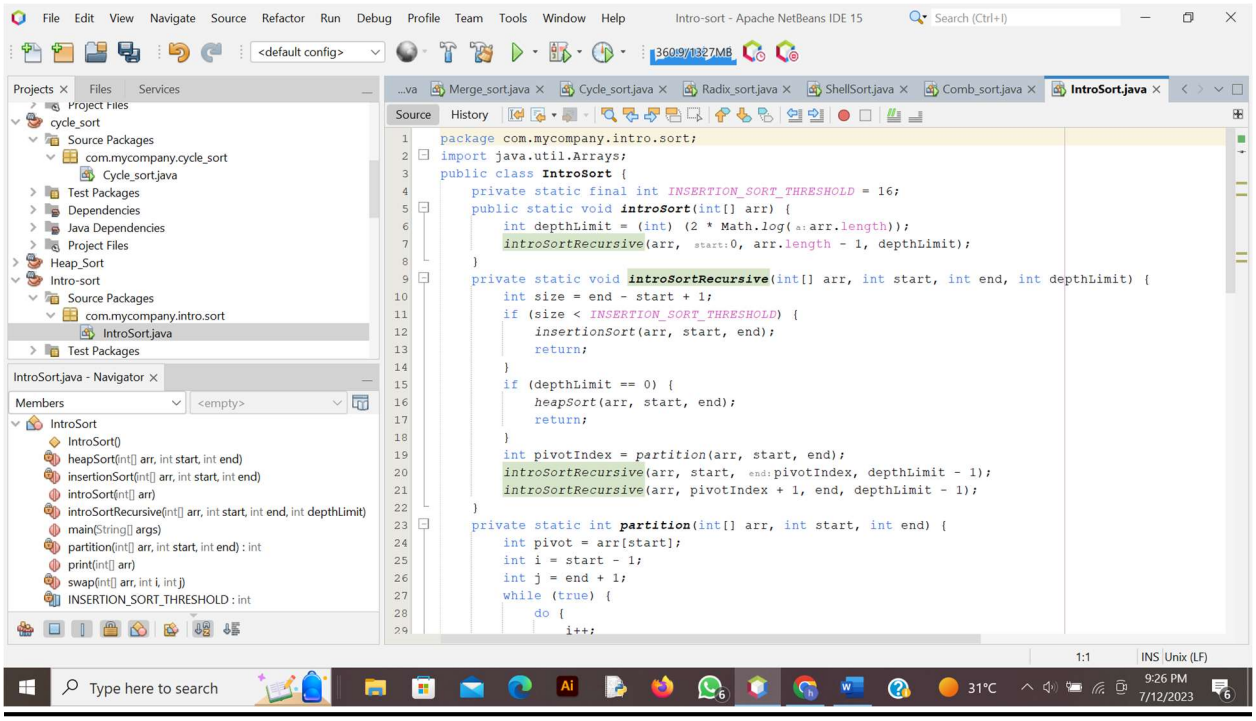
Comb Sort

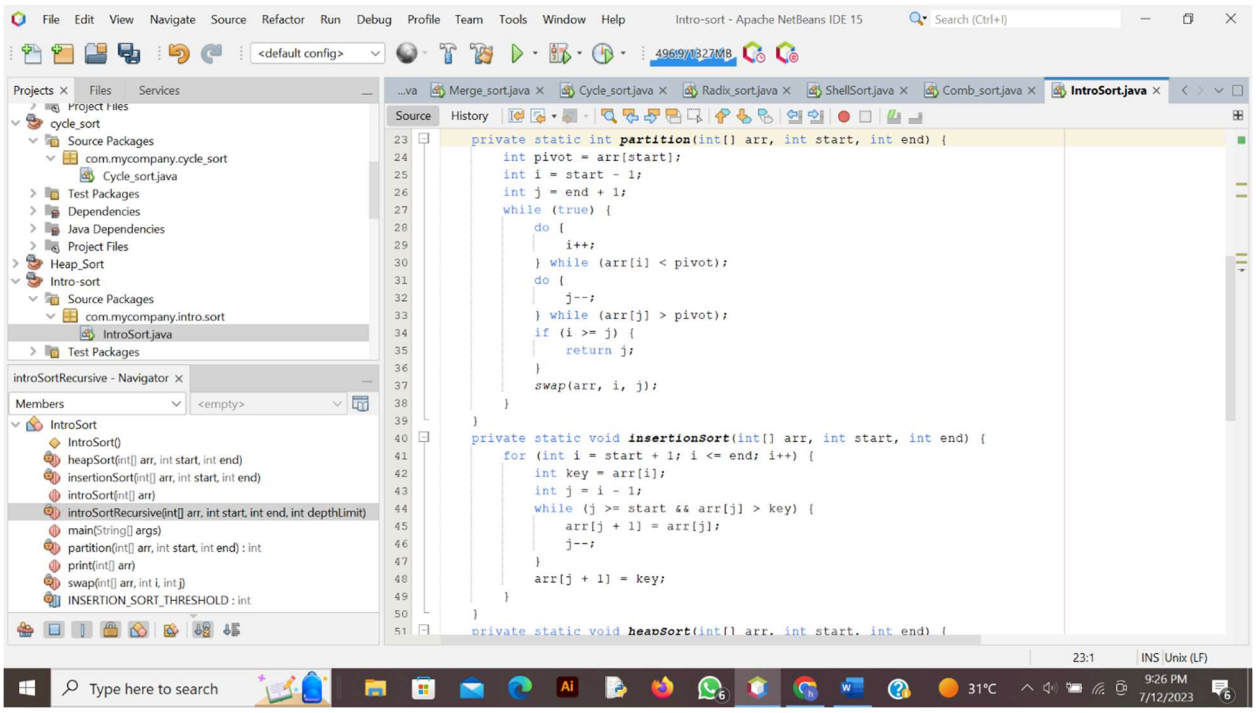

File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help
comb_sort - Apache NetBeans IDE 15
Search (Ctrl+I)
<default config>
552.2/1327MB
Projects
Files
Services
comb_sort
Source Packages
com.mycompany.comb_sort
Comb_sort.java
Dependencies
Java Dependencies
Project Files
cycle_sort
Source Packages
com.mycompany.cycle_sort
Cycle_sort.java
Test Packages
Dependencies
Java Dependencies
main - Navigator
Members
<empty>
Comb_sort
Comb_sort()
combSort(int[] arr)
getNextGap(int gap) : int
main(String[] args)
printArray(int[] arr)
...va
Bucket_sort.java
Merge_sort.java
Cycle_sort.java
Radix_sort.java
ShellSort.java
Comb_sort.java
Source
History
1 package com.mycompany.comb_sort;
2 public class Comb_sort {
3 public static void combSort(int[] arr) {
4 int n = arr.length;
5 int gap = n;
6 boolean swapped = true;
7
8 while (gap > 1 || swapped) {
9 gap = getNextGap(gap);
10 swapped = false;
11
12 for (int i = 0; i < n - gap; i++) {
13 if (arr[i] > arr[i + gap]) {
14 // Swap arr[i] and arr[i+gap]
15 int temp = arr[i];
16 arr[i] = arr[i + gap];
17 arr[i + gap] = temp;
18 swapped = true;
19 }
20 }
21 }
22 }
23 public static int getNextGap(int gap) {
24 // Shrink gap by a factor of 1.3
25 gap = (gap * 10) / 13;
26
27 if (gap < 1) {
28 return 1;
47:54
INS Unix (LF)
Type here to search
Hot...
9:19 PM
7/12/2023

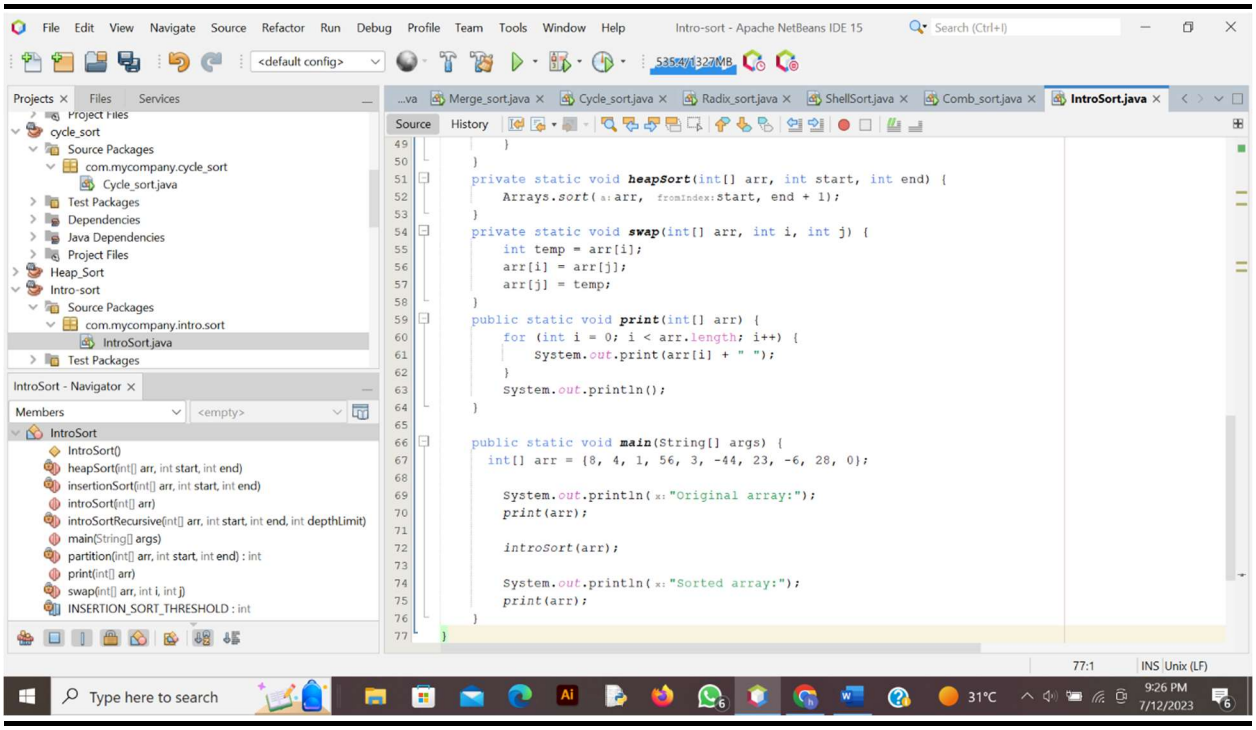

File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help
comb_sort - Apache NetBeans IDE 15
Search (Ctrl+I)
<default config>
612.2/1327MB
Projects
Files
Services
comb_sort
Source Packages
com.mycompany.comb_sort
Comb_sort.java
Dependencies
Java Dependencies
Project Files
cycle_sort
Source Packages
com.mycompany.cycle_sort
Cycle_sort.java
Test Packages
Dependencies
Java Dependencies
main - Navigator
Members
<empty>
Comb_sort
Comb_sort()
combSort(int[] arr)
getNextGap(int gap) : int
main(String[] args)
printArray(int[] arr)
...va
Bucket_sort.java
Merge_sort.java
Cycle_sort.java
Radix_sort.java
ShellSort.java
Comb_sort.java
Source
History
// Shrink gap by a factor of 1.3
gap = (gap * 10) / 13;
if (gap < 1) {
return 1;
}
return gap;
}
public static void printArray(int[] arr) {
int n = arr.length;
for (int i = 0; i < n; ++i) {
System.out.print(arr[i] + " ");
}
System.out.println();
}
public static void main(String[] args) {
int[] arr = { -2,-9,-10,-5,-11,-44,-66,-1 };
System.out.println(x: "Original array:");
printArray(arr);
combSort(arr);
System.out.println(x: "Sorted array by Comb_sort:");
printArray(arr);
}
}
47:54
INS Unix (LF)
Type here to search
Hot...
9:19 PM
7/12/2023

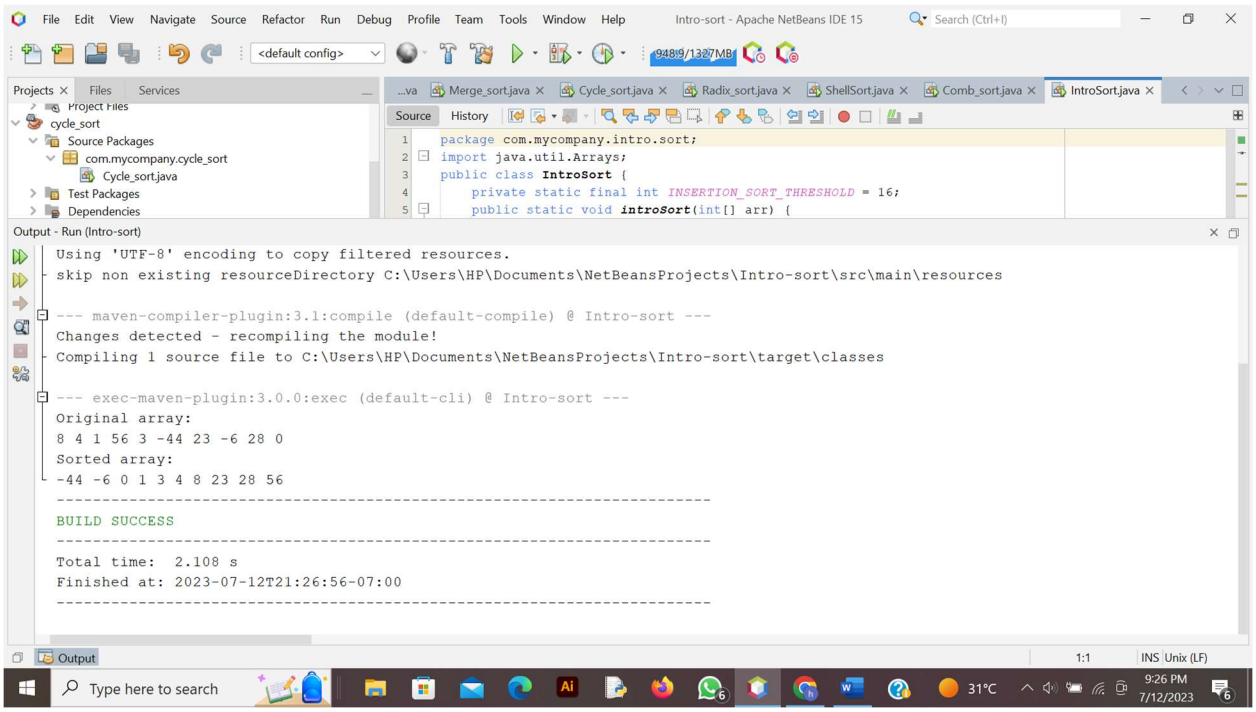

comb_sort - Apache NetBeans IDE 15
Comb_sort.java
Output - Run (comb_sort)
Running NetBeans Compile On Save execution. Phase execution is skipped and output directories of dependency projects (with Compile
Scanning for projects...
Building comb_sort 1.0-SNAPSHOT
--- exec-maven-plugin:3.0.0:exec (default-cli) @ comb_sort ---
Original array:
-2 -9 -10 -5 -11 -44 -66 -1
Sorted array by Comb_sort:
-66 -44 -11 -10 -9 -5 -2 -1
BUILD SUCCESS
Total time: 0.788 s
Finished at: 2023-07-12T21:18:50-07:00

Intro Sort

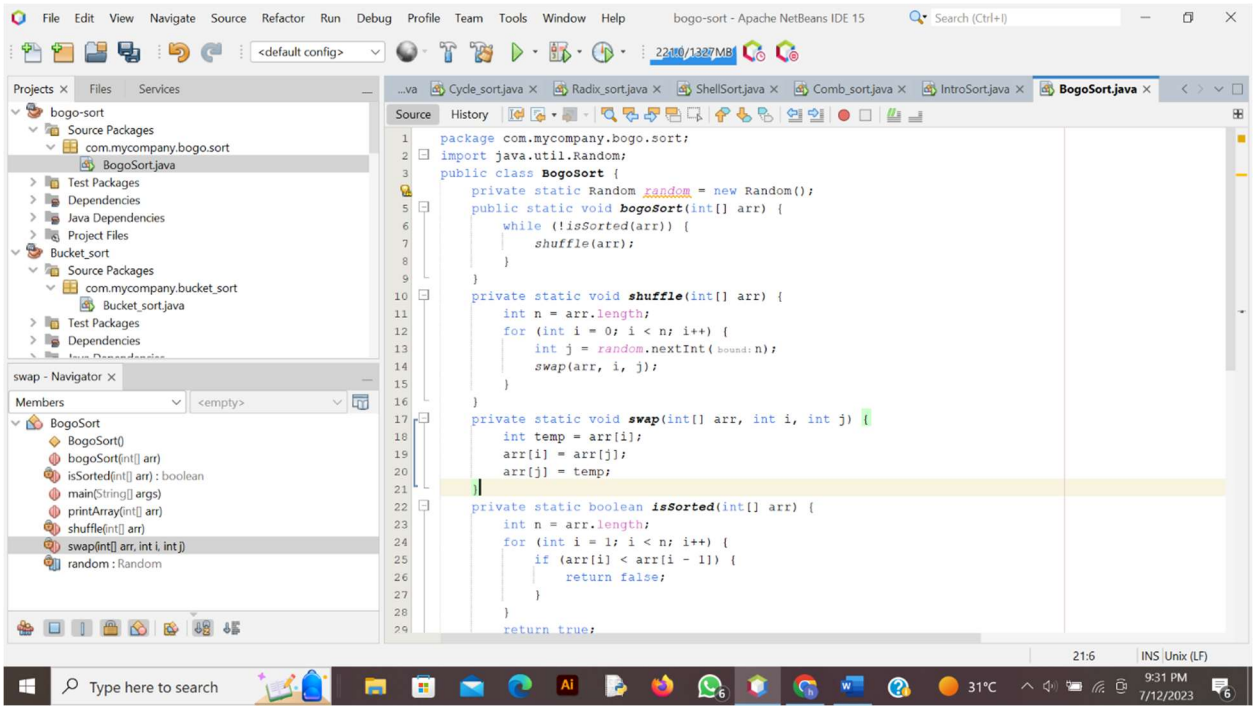

Intro-sort - Apache NetBeans IDE 15
IntroSort.java
IntroSort.java - Navigator
IntroSort()
heapSort(int[] arr, int start, int end)
insertionSort(int[] arr, int start, int end)
introSort(int[] arr)
introSortRecursive(int[] arr, int start, int end, int depthLimit)
main(String[] args)
partition(int[] arr, int start, int end) : int
print(int[] arr)
swap(int[] arr, int i, int j)
INSERTION_SORT_THRESHOLD : int

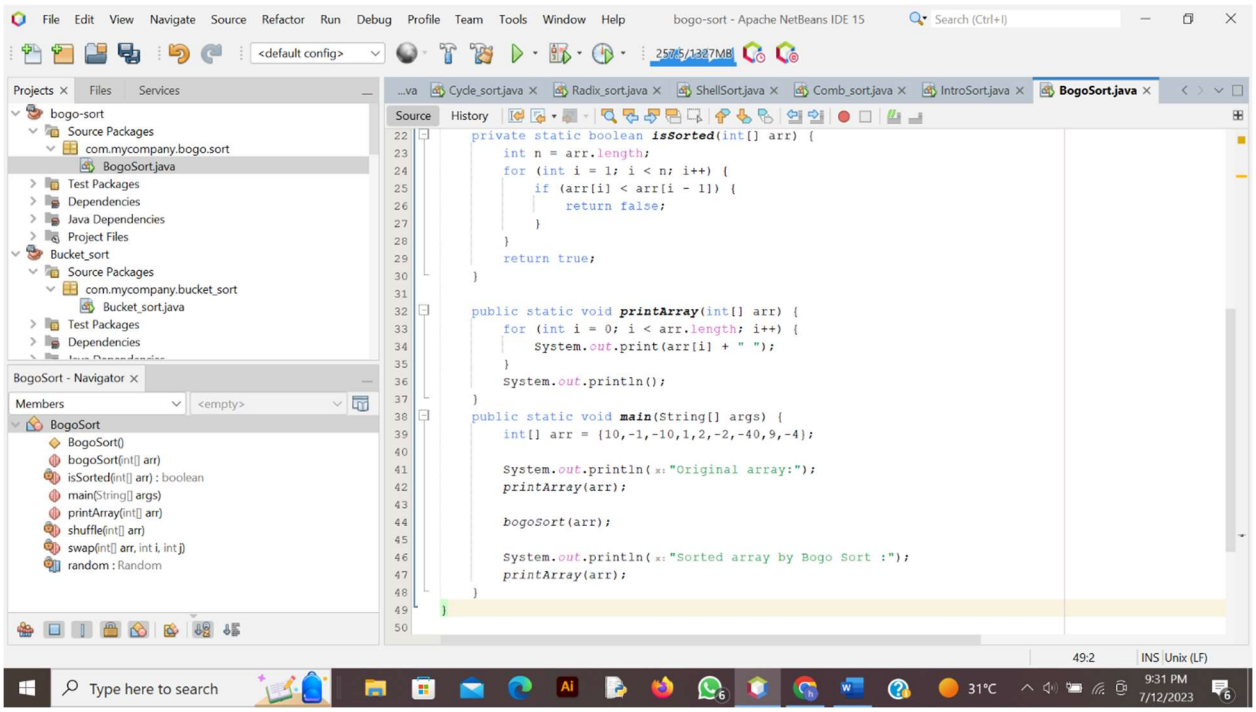

File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help
Intro-sort - Apache NetBeans IDE 15
Search (Ctrl+I)
<default config>
Projects
Files
Services
cycle_sort
Source Packages
com.mycompany.cycle_sort
Cycle_sort.java
Test Packages
Dependencies
Java Dependencies
Project Files
Heap_Sort
Intro-sort
Source Packages
com.mycompany.intro.sort
IntroSort.java
Test Packages
introSortRecursive - Navigator
Members
<empty>
IntroSort
IntroSort()
heapSort(int[] arr, int start, int end)
insertionSort(int[] arr, int start, int end)
introSort(int[] arr)
introSortRecursive(int[] arr, int start, int end, int depthLimit)
main(String[] args)
partition(int[] arr, int start, int end) : int
print(int[] arr)
swap(int[] arr, int i, int j)
INSERTION_SORT_THRESHOLD : int
Merge_sort.java
Cycle_sort.java
Radix_sort.java
ShellSort.java
Comb_sort.java
IntroSort.java
Source
History
private static int partition(int[] arr, int start, int end) {
int pivot = arr[start];
int i = start - 1;
int j = end + 1;
while (true) {
do {
i++;
} while (arr[i] < pivot);
do {
j--;
} while (arr[j] > pivot);
if (i >= j) {
return j;
}
swap(arr, i, j);
}
}
private static void insertionSort(int[] arr, int start, int end) {
for (int i = start + 1; i <= end; i++) {
int key = arr[i];
int j = i - 1;
while (j >= start && arr[j] > key) {
arr[j + 1] = arr[j];
j--;
}
arr[j + 1] = key;
}
}
23:1
INS Unix (LF)
Type here to search
31°C
9:26 PM
7/12/2023

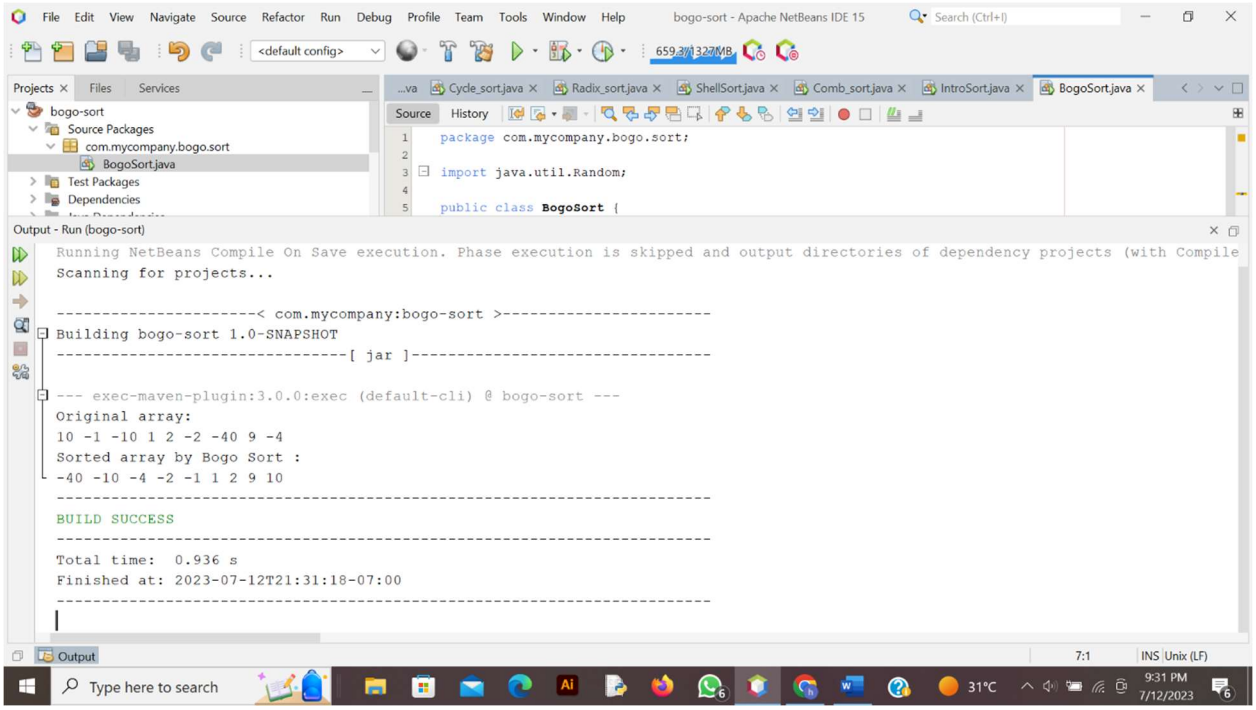

File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help
Intro-sort - Apache NetBeans IDE 15
Search (Ctrl+I)
<default config>
Projects
Files
Services
cycle_sort
Source Packages
com.mycompany.cycle_sort
Cycle_sort.java
Test Packages
Dependencies
Java Dependencies
Project Files
Heap_Sort
Intro-sort
Source Packages
com.mycompany.intro.sort
IntroSort.java
Test Packages
IntroSort - Navigator
Members
<empty>
IntroSort
IntroSort()
heapSort(int[] arr, int start, int end)
insertionSort(int[] arr, int start, int end)
introSort(int[] arr)
introSortRecursive(int[] arr, int start, int end, int depthLimit)
main(String[] args)
partition(int[] arr, int start, int end) : int
print(int[] arr)
swap(int[] arr, int i, int j)
INSERTION_SORT_THRESHOLD : int
Merge_sort.java
Cycle_sort.java
Radix_sort.java
ShellSort.java
Comb_sort.java
IntroSort.java
Source
History
}
private static void heapSort(int[] arr, int start, int end) {
Arrays.sort(a: arr, fromIndex: start, end + 1);
}
private static void swap(int[] arr, int i, int j) {
int temp = arr[i];
arr[i] = arr[j];
arr[j] = temp;
}
public static void print(int[] arr) {
for (int i = 0; i < arr.length; i++) {
System.out.print(arr[i] + " ");
}
System.out.println();
}
public static void main(String[] args) {
int[] arr = {8, 4, 1, 56, 3, -44, 23, -6, 28, 0};
System.out.println(x: "Original array:");
print(arr);
introSort(arr);
System.out.println(x: "Sorted array:");
print(arr);
}
}
77:1
INS Unix (LF)
Type here to search
31°C
9:26 PM
7/12/2023


File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help
Intro-sort - Apache NetBeans IDE 15
Search (Ctrl+I)
<default config>
Projects
Files
Services
cycle_sort
Source Packages
com.mycompany.cycle_sort
Cycle_sort.java
Test Packages
Dependencies
Merge_sort.java
Cycle_sort.java
Radix_sort.java
ShellSort.java
Comb_sort.java
IntroSort.java
Source
History
package com.mycompany.intro.sort;
import java.util.Arrays;
public class IntroSort {
private static final int INSERTION_SORT_THRESHOLD = 16;
public static void introSort(int[] arr) {
Output - Run (Intro-sort)
Using 'UTF-8' encoding to copy filtered resources.
skip non existing resourceDirectory C:\Users\HP\Documents\NetBeansProjects\Intro-sort\src\main\resources
--- maven-compiler-plugin:3.1:compile (default-compile) @ Intro-sort ---
Changes detected - recompiling the module!
Compiling 1 source file to C:\Users\HP\Documents\NetBeansProjects\Intro-sort\target\classes
--- exec-maven-plugin:3.0.0:exec (default-cli) @ Intro-sort ---
Original array:
8 4 1 56 3 -44 23 -6 28 0
Sorted array:
-44 -6 0 1 3 4 8 23 28 56
BUILD SUCCESS
Total time: 2.108 s
Finished at: 2023-07-12T21:26:56-07:00
Output
1:1
INS Unix (LF)
Type here to search
31°C
9:26 PM
7/12/2023

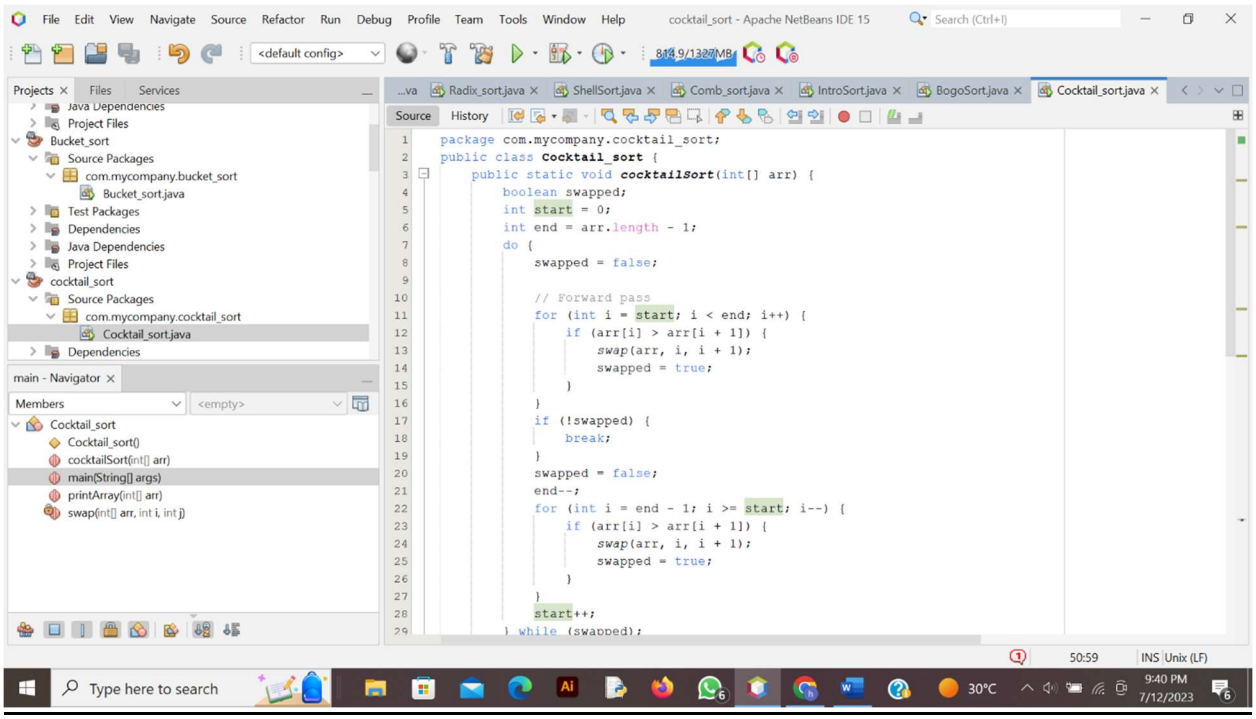
Bogo Sort


File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help
bogo-sort - Apache NetBeans IDE 15
Search (Ctrl+I)
<default config>
Projects
Files
Services
bogo-sort
Source Packages
com.mycompany.bogo.sort
BogoSort.java
Test Packages
Dependencies
Java Dependencies
Project Files
Bucket_sort
Source Packages
com.mycompany.bucket_sort
Bucket_sort.java
Test Packages
Dependencies
swap - Navigator
Members
<empty>
BogoSort
BogoSort()
bogoSort(int[] arr)
isSorted(int[] arr) : boolean
main(String[] args)
printArray(int[] arr)
shuffle(int[] arr)
swap(int[] arr, int i, int j)
random : Random
Cycle_sort.java
Radix_sort.java
ShellSort.java
Comb_sort.java
IntroSort.java
BogoSort.java
Source
History
package com.mycompany.bogo.sort;
import java.util.Random;
public class BogoSort {
private static Random random = new Random();
public static void bogoSort(int[] arr) {
while (!isSorted(arr)) {
shuffle(arr);
}
}
private static void shuffle(int[] arr) {
int n = arr.length;
for (int i = 0; i < n; i++) {
int j = random.nextInt(bound: n);
swap(arr, i, j);
}
}
private static void swap(int[] arr, int i, int j) {
int temp = arr[i];
arr[i] = arr[j];
arr[j] = temp;
}
private static boolean isSorted(int[] arr) {
int n = arr.length;
for (int i = 1; i < n; i++) {
if (arr[i] < arr[i - 1]) {
return false;
}
}
return true;
21:6
INS Unix (LF)
Type here to search
31°C
9:31 PM
7/12/2023





Cocktail Sort


File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help
cocktail_sort - Apache NetBeans IDE 15
Search (Ctrl+I)
<default config>
Projects
Files
Services
Bucket_sort
Source Packages
com.mycompany.bucket_sort
Bucket_sort.java
Test Packages
Dependencies
Java Dependencies
Project Files
cocktail_sort
Source Packages
com.mycompany.cocktail_sort
Cocktail_sort.java
Dependencies
main - Navigator
Members
<empty>
Cocktail_sort
Cocktail_sort()
cocktailSort(int[] arr)
main(String[] args)
printArray(int[] arr)
swap(int[] arr, int i, int j)
Radix_sort.java
ShellSort.java
Comb_sort.java
IntroSort.java
BogoSort.java
Cocktail_sort.java
Source
History
package com.mycompany.cocktail_sort;
public class Cocktail_sort {
public static void cocktailSort(int[] arr) {
boolean swapped;
int start = 0;
int end = arr.length - 1;
do {
swapped = false;
// Forward pass
for (int i = start; i < end; i++) {
if (arr[i] > arr[i + 1]) {
swap(arr, i, i + 1);
swapped = true;
}
}
if (!swapped) {
break;
}
swapped = false;
end--;
for (int i = end - 1; i >= start; i--) {
if (arr[i] > arr[i + 1]) {
swap(arr, i, i + 1);
swapped = true;
}
}
start++;
} while (swapped);
50:59
INS Unix (LF)
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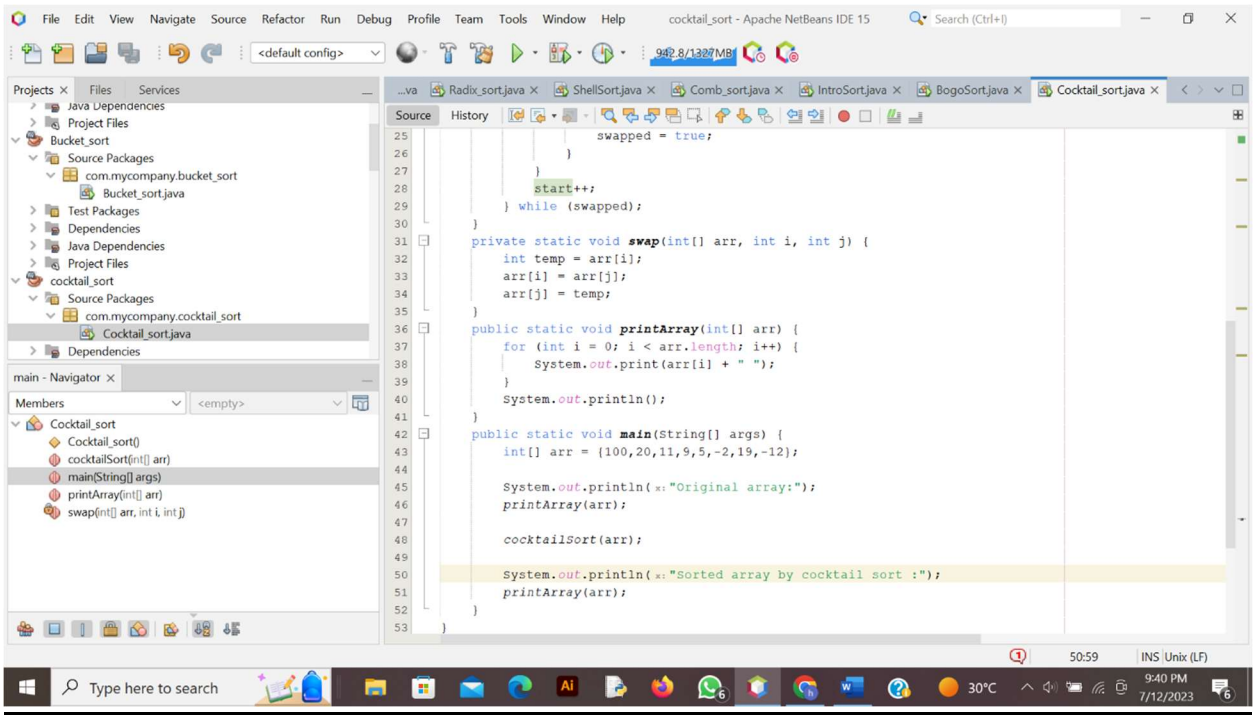
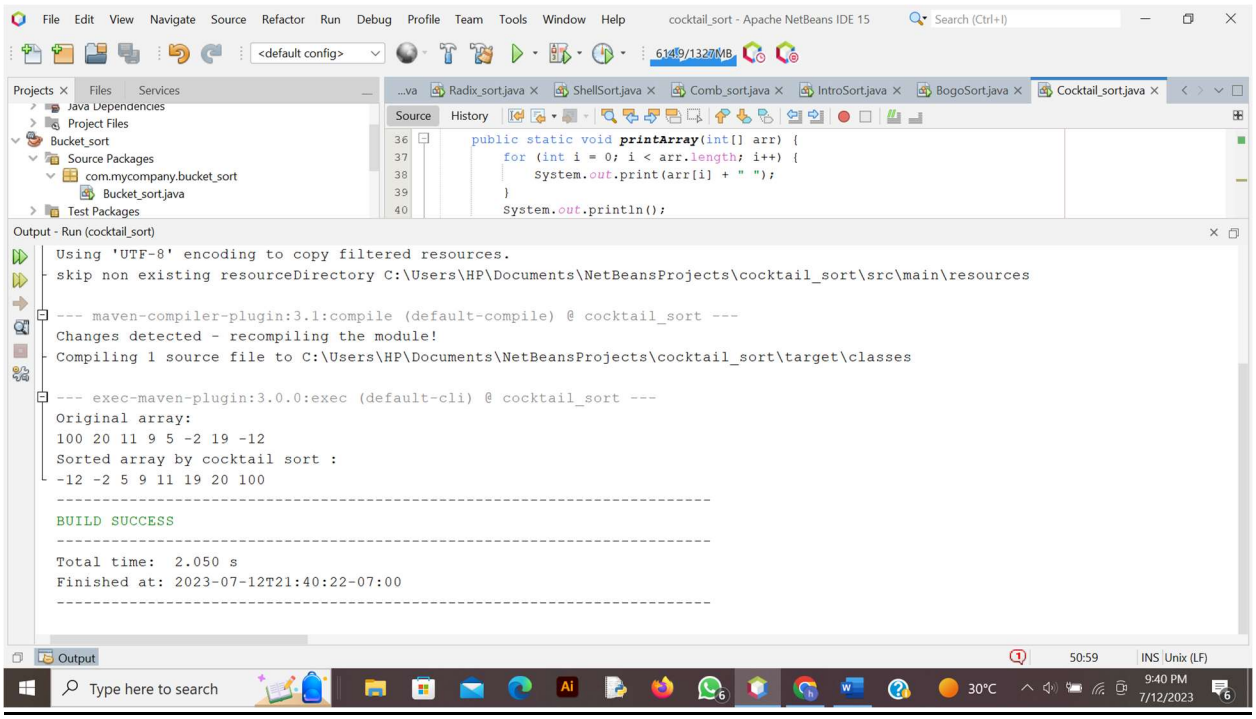
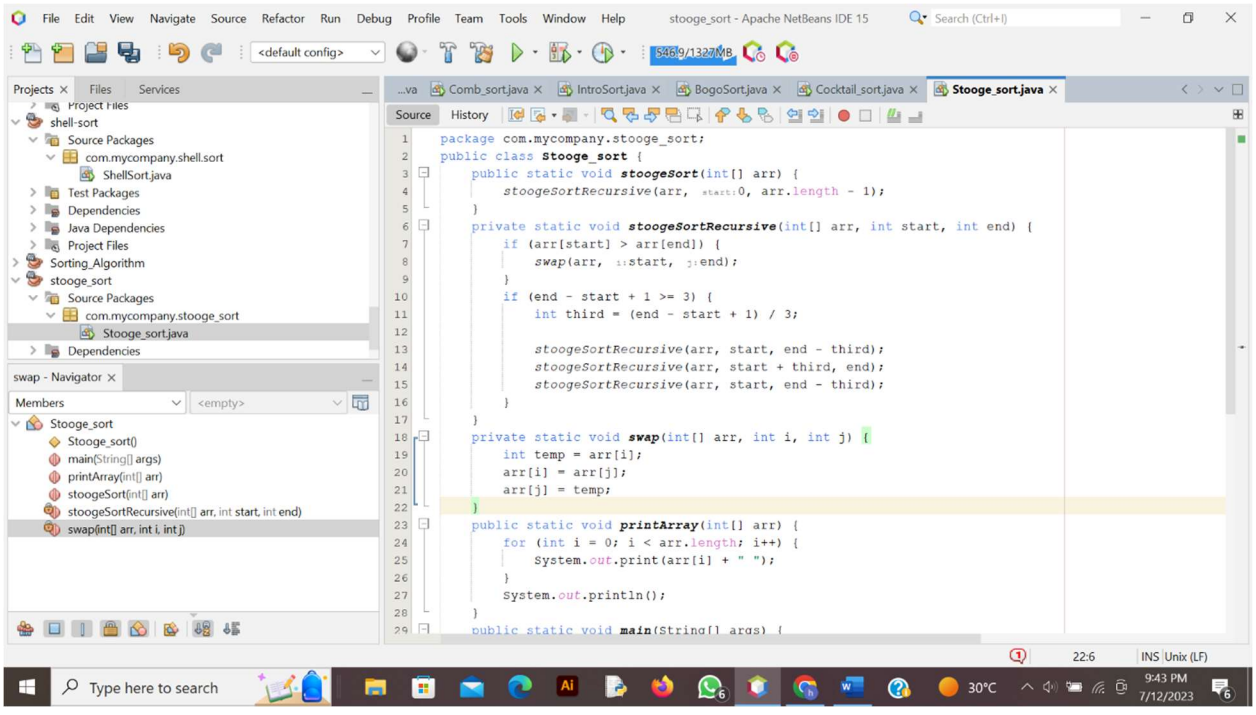
30°C
9:40 PM
7/12/2023


File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help
cocktail_sort - Apache NetBeans IDE 15
Search (Ctrl+I)
<default config>
Projects
Files
Services
Bucket_sort
Source Packages
com.mycompany.bucket_sort
Bucket_sort.java
Test Packages
Dependencies
Java Dependencies
Project Files
cocktail_sort
Source Packages
com.mycompany.cocktail_sort
Cocktail_sort.java
Dependencies
main - Navigator
Members
<empty>
Cocktail_sort
Cocktail_sort()
cocktailSort(int[] arr)
main(String[] args)
printArray(int[] arr)
swap(int[] arr, int i, int j)
Radix_sort.java
ShellSort.java
Comb_sort.java
IntroSort.java
BogoSort.java
Cocktail_sort.java
Source
History
swapped = true;
}
}
start++;
} while (swapped);
}
private static void swap(int[] arr, int i, int j) {
int temp = arr[i];
arr[i] = arr[j];
arr[j] = temp;
}
public static void printArray(int[] arr) {
for (int i = 0; i < arr.length; i++) {
System.out.print(arr[i] + " ");
}
System.out.println();
}
public static void main(String[] args) {
int[] arr = {100,20,11,9,5,-2,19,-12};
System.out.println(x: "Original array:");
printArray(arr);
cocktailSort(arr);
System.out.println(x: "Sorted array by cocktail sort :");
printArray(arr);
}
}
50:59
INS Unix (LF)
Type here to search
30°C
9:40 PM
7/12/2023


File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help
cocktail_sort - Apache NetBeans IDE 15
Search (Ctrl+I)
<default config>
614/1327MB
Projects
Files
Services
Java Dependencies
Project Files
Bucket_sort
Source Packages
com.mycompany.bucket_sort
Bucket_sort.java
Test Packages
...va
Radix_sort.java
ShellSort.java
Comb_sort.java
IntroSort.java
BogoSort.java
Cocktail_sort.java
Source
History
36 public static void printArray(int[] arr) {
37 for (int i = 0; i < arr.length; i++) {
38 System.out.print(arr[i] + " ");
39 }
40 System.out.println();
Output - Run (cocktail_sort)
Using 'UTF-8' encoding to copy filtered resources.
skip non existing resourceDirectory C:\Users\HP\Documents\NetBeansProjects\cocktail_sort\src\main\resources
--- maven-compiler-plugin:3.1:compile (default-compile) @ cocktail_sort ---
Changes detected - recompiling the module!
Compiling 1 source file to C:\Users\HP\Documents\NetBeansProjects\cocktail_sort\target\classes
--- exec-maven-plugin:3.0.0:exec (default-cli) @ cocktail_sort ---
Original array:
100 20 11 9 5 -2 19 -12
Sorted array by cocktail sort :
-12 -2 5 9 11 19 20 100
BUILD SUCCESS
Total time: 2.050 s
Finished at: 2023-07-12T21:40:22-07:00
Output
50:59
INS Unix (LF)
Type here to search
30°C
9:40 PM
7/12/2023

Stooge Sort


File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help
stooge_sort - Apache NetBeans IDE 15
Search (Ctrl+I)
<default config>
546/1327MB
Projects
Files
Services
Project Files
shell-sort
Source Packages
com.mycompany.shell.sort
ShellSort.java
Test Packages
Dependencies
Java Dependencies
Project Files
Sorting_Algorithm
stooge_sort
Source Packages
com.mycompany.stooge_sort
Stooge_sort.java
Dependencies
swap - Navigator
Members
<empty>
Stooge_sort
Stooge_sort()
main(String[] args)
printArray(int[] arr)
stoogeSort(int[] arr)
stoogeSortRecursive(int[] arr, int start, int end)
swap(int[] arr, int i, int j)
...va
Comb_sort.java
IntroSort.java
BogoSort.java
Cocktail_sort.java
Stooge_sort.java
Source
History
1 package com.mycompany.stooge_sort;
2 public class Stooge_sort {
3 public static void stoogeSort(int[] arr) {
4 stoogeSortRecursive(arr, start:0, arr.length - 1);
5 }
6 private static void stoogeSortRecursive(int[] arr, int start, int end) {
7 if (arr[start] > arr[end]) {
8 swap(arr, i:start, j:end);
9 }
10 if (end - start + 1 >= 3) {
11 int third = (end - start + 1) / 3;
12
13 stoogeSortRecursive(arr, start, end - third);
14 stoogeSortRecursive(arr, start + third, end);
15 stoogeSortRecursive(arr, start, end - third);
16 }
17 }
18 private static void swap(int[] arr, int i, int j) {
19 int temp = arr[i];
20 arr[i] = arr[j];
21 arr[j] = temp;
22 }
23 public static void printArray(int[] arr) {
24 for (int i = 0; i < arr.length; i++) {
25 System.out.print(arr[i] + " ");
26 }
27 System.out.println();
28 }
29 public static void main(String[] args) {
22:6
INS Unix (LF)
Type here to search
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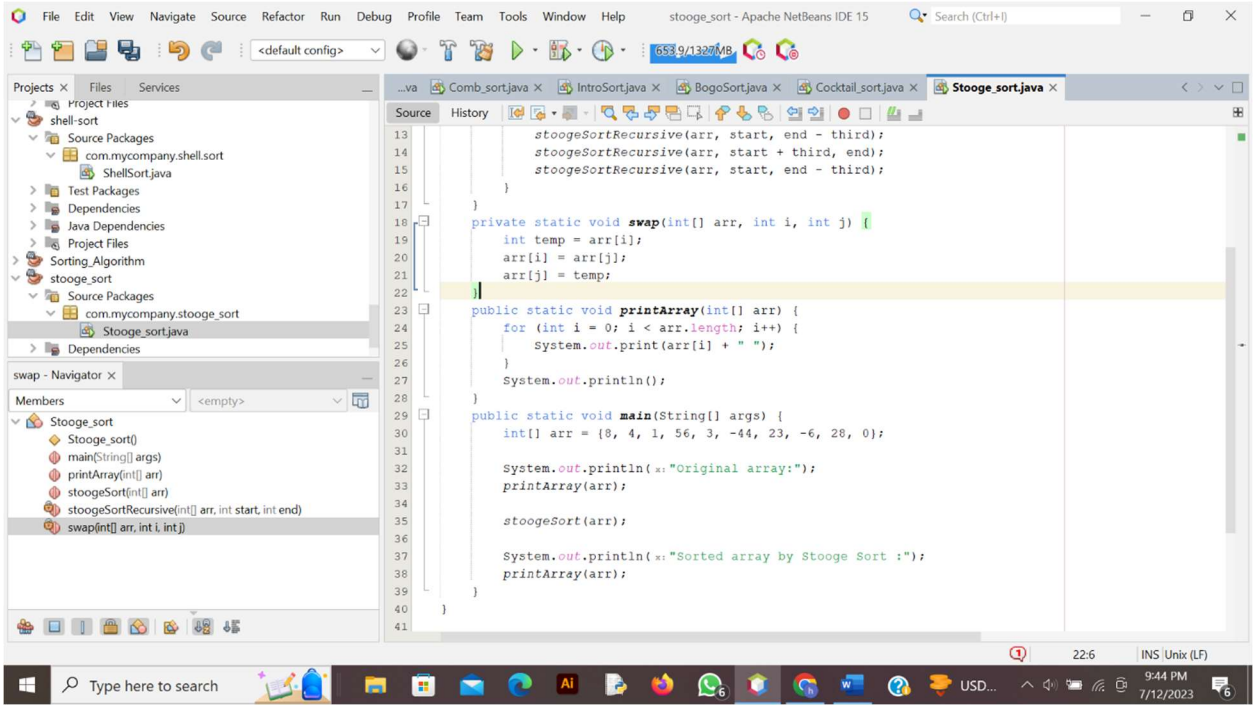
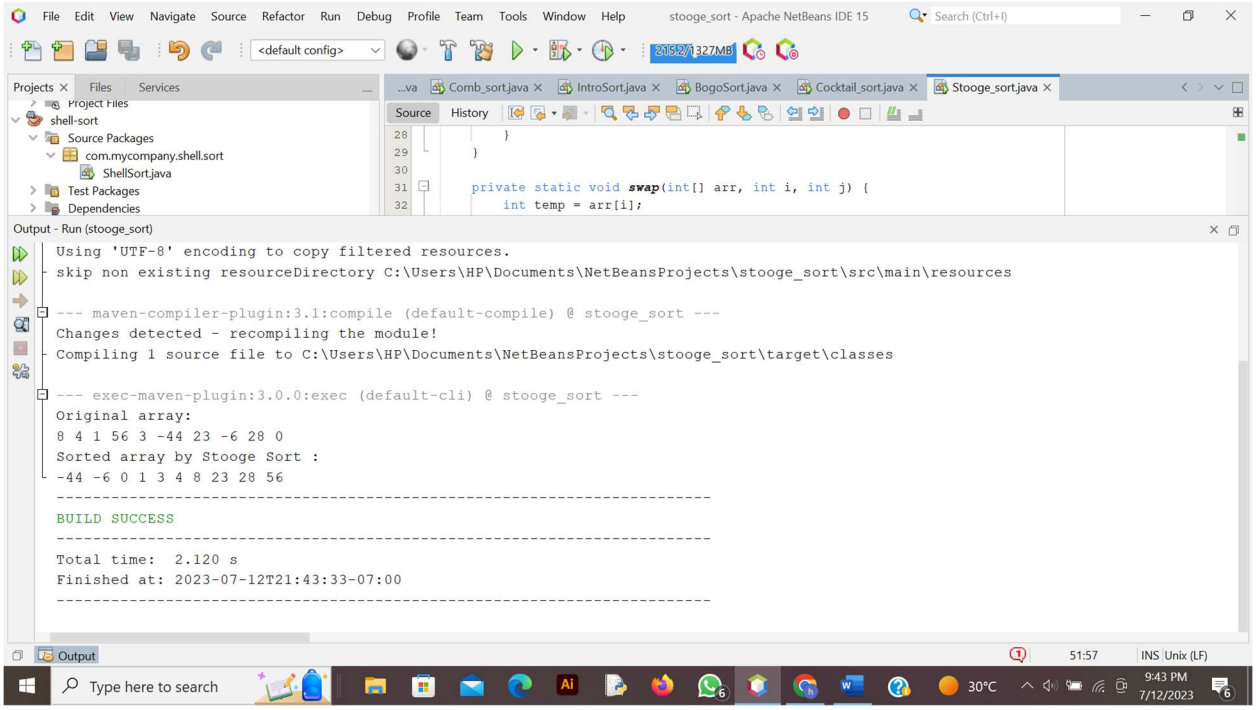
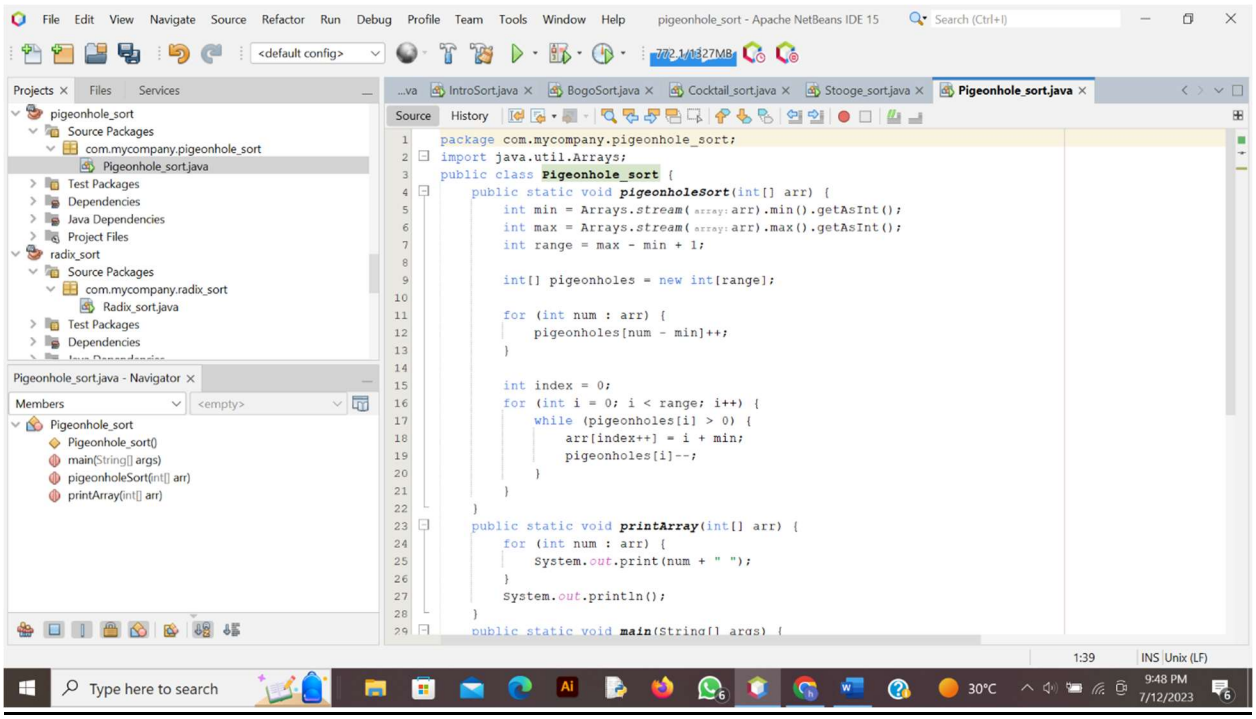
9:43 PM
7/12/2023





Pigeonhole Sort


File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help
pigeonhole_sort - Apache NetBeans IDE 15
Search (Ctrl+I)
<default config>
Projects
Files
Services
pigeonhole_sort
Source Packages
com.mycompany.pigeonhole_sort
Pigeonhole_sort.java
Test Packages
Dependencies
Java Dependencies
Project Files
radix_sort
Source Packages
com.mycompany.radix_sort
Radix_sort.java
Test Packages
Dependencies
Pigeonhole_sort.java - Navigator
Members
<empty>
Pigeonhole_sort
Pigeonhole_sort()
main(String[] args)
pigeonholeSort(int[] arr)
printArray(int[] arr)
IntroSort.java
BogoSort.java
Cocktail_sort.java
Stooge_sort.java
Pigeonhole_sort.java
Source
History
package com.mycompany.pigeonhole_sort;
import java.util.Arrays;
public class Pigeonhole_sort {
public static void pigeonholeSort(int[] arr) {
int min = Arrays.stream(array: arr).min().getAsInt();
int max = Arrays.stream(array: arr).max().getAsInt();
int range = max - min + 1;
int[] pigeonholes = new int[range];
for (int num : arr) {
pigeonholes[num - min]++;
}
int index = 0;
for (int i = 0; i < range; i++) {
while (pigeonholes[i] > 0) {
arr[index++] = i + min;
pigeonholes[i]--;
}
}
}
public static void printArray(int[] arr) {
for (int num : arr) {
System.out.print(num + " ");
}
System.out.println();
}
public static void main(String[] args) {
1:39
INS Unix (LF)
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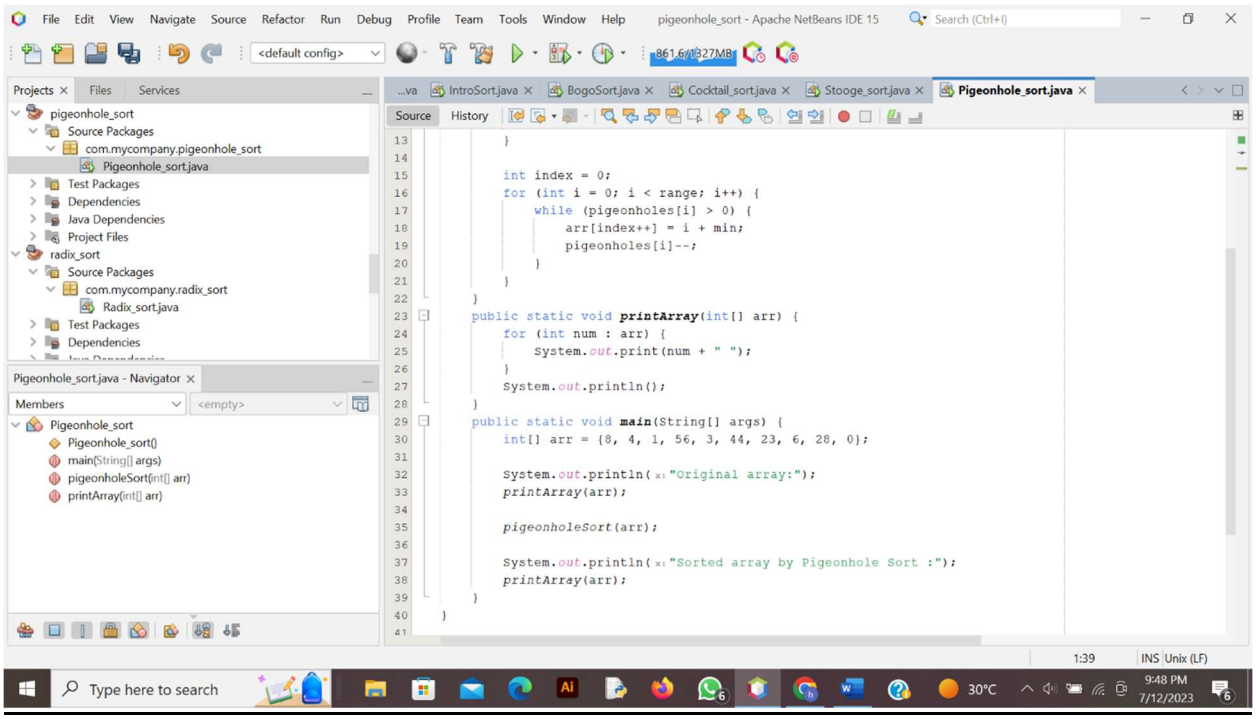
7/12/2023


File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help
pigeonhole_sort - Apache NetBeans IDE 15
Search (Ctrl+I)
<default config>
Projects
Files
Services
pigeonhole_sort
Source Packages
com.mycompany.pigeonhole_sort
Pigeonhole_sort.java
Test Packages
Dependencies
Java Dependencies
Project Files
radix_sort
Source Packages
com.mycompany.radix_sort
Radix_sort.java
Test Packages
Dependencies
Pigeonhole_sort.java - Navigator
Members
<empty>
Pigeonhole_sort
Pigeonhole_sort()
main(String[] args)
pigeonholeSort(int[] arr)
printArray(int[] arr)
IntroSort.java
BogoSort.java
Cocktail_sort.java
Stooge_sort.java
Pigeonhole_sort.java
Source
History
}
int index = 0;
for (int i = 0; i < range; i++) {
while (pigeonholes[i] > 0) {
arr[index++] = i + min;
pigeonholes[i]--;
}
}
}
public static void printArray(int[] arr) {
for (int num : arr) {
System.out.print(num + " ");
}
System.out.println();
}
public static void main(String[] args) {
int[] arr = {8, 4, 1, 56, 3, 44, 23, 6, 28, 0};
System.out.println(x: "Original array:");
printArray(arr);
pigeonholeSort(arr);
System.out.println(x: "Sorted array by Pigeonhole Sort :");
printArray(arr);
}
}
1:39
INS Unix (LF)
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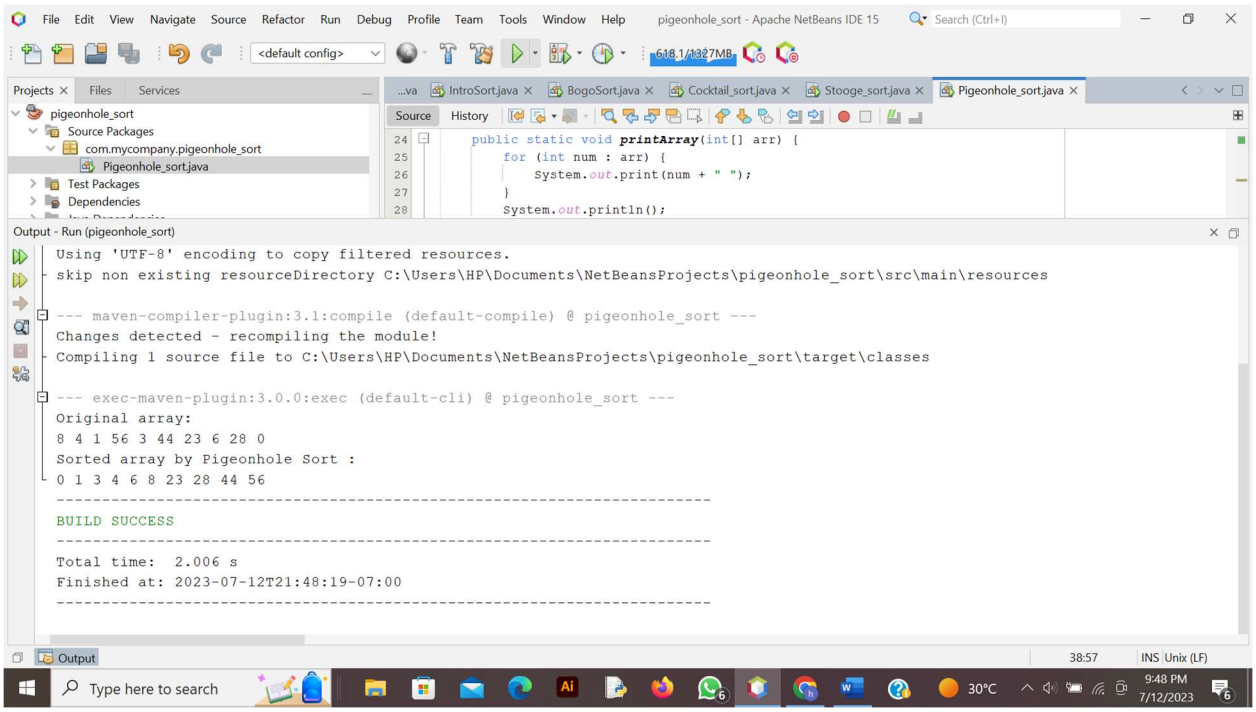
7/12/2023


File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help
pigeonhole_sort - Apache NetBeans IDE 15
Search (Ctrl+I)
<default config>
Projects
Files
Services
pigeonhole_sort
Source Packages
com.mycompany.pigeonhole_sort
Pigeonhole_sort.java
Test Packages
Dependencies
IntroSort.java
BogoSort.java
Cocktail_sort.java
Stooge_sort.java
Pigeonhole_sort.java
Source
History
public static void printArray(int[] arr) {
for (int num : arr) {
System.out.print(num + " ");
}
System.out.println();
Output - Run (pigeonhole_sort)
Using 'UTF-8' encoding to copy filtered resources.
skip non existing resourceDirectory C:\Users\HP\Documents\NetBeansProjects\pigeonhole_sort\src\main\resources
--- maven-compiler-plugin:3.1:compile (default-compile) @ pigeonhole_sort ---
Changes detected - recompiling the module!
Compiling 1 source file to C:\Users\HP\Documents\NetBeansProjects\pigeonhole_sort\target\classes
--- exec-maven-plugin:3.0.0:exec (default-cli) @ pigeonhole_sort ---
Original array:
8 4 1 56 3 44 23 6 28 0
Sorted array by Pigeonhole Sort :
0 1 3 4 6 8 23 28 44 56
BUILD SUCCESS
Total time: 2.006 s
Finished at: 2023-07-12T21:48:19-07:00
Output
38:57
INS Unix (LF)
Type here to search
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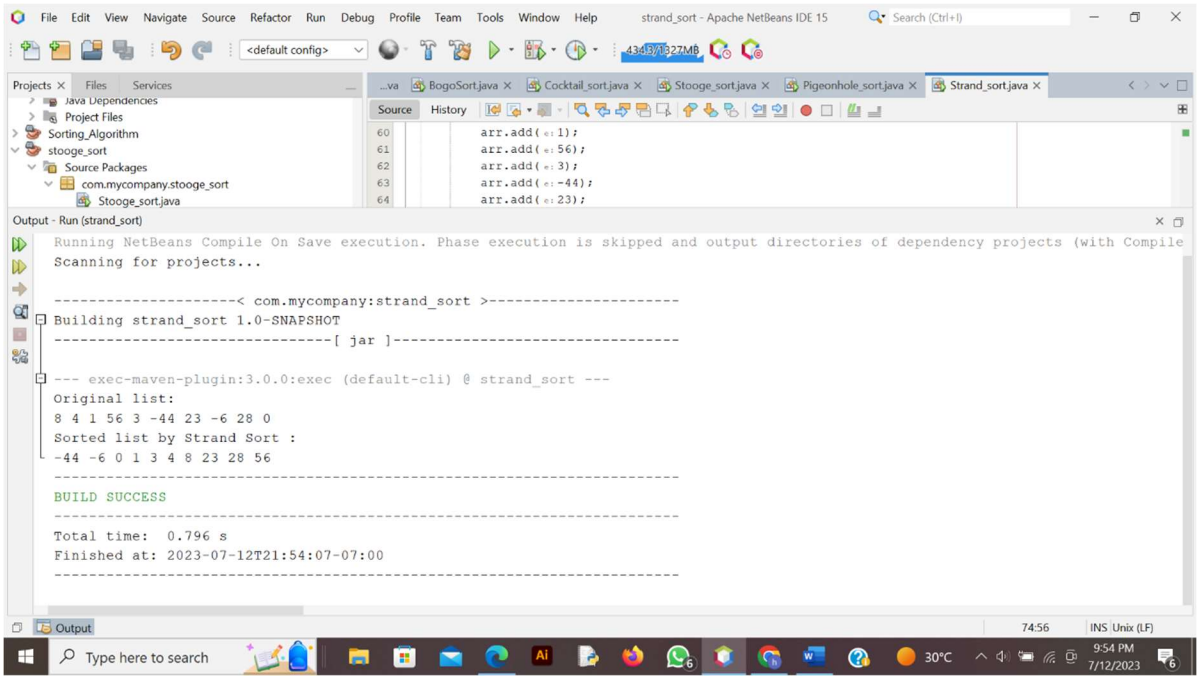
9:48 PM
7/12/2023

Strand Sort


File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help
strand_sort - Apache NetBeans IDE 15
Search (Ctrl+I)
<default config>
Projects
Files
Services
Java Dependencies
Project Files
Sorting_Algorithm
stooge_sort
Source Packages
com.mycompany.stooge_sort
Stooge_sort.java
BogoSort.java
Cocktail_sort.java
Stooge_sort.java
Pigeonhole_sort.java
Strand_sort.java
Source
History
arr.add(1);
arr.add(56);
arr.add(3);
arr.add(-44);
arr.add(23);
Output - Run (strand_sort)
Running NetBeans Compile On Save execution. Phase execution is skipped and output directories of dependency projects (with Compile
Scanning for projects...
----------< com.mycompany:strand_sort >----------
Building strand_sort 1.0-SNAPSHOT
--------[jar]--------
--- exec-maven-plugin:3.0.0:exec (default-cli) @ strand_sort ---
Original list:
8 4 1 56 3 -44 23 -6 28 0
Sorted list by Strand Sort :
-44 -6 0 1 3 4 8 23 28 56
BUILD SUCCESS
Total time: 0.796 s
Finished at: 2023-07-12T21:54:07-07:00
Output
74:56
INS Unix (LF)
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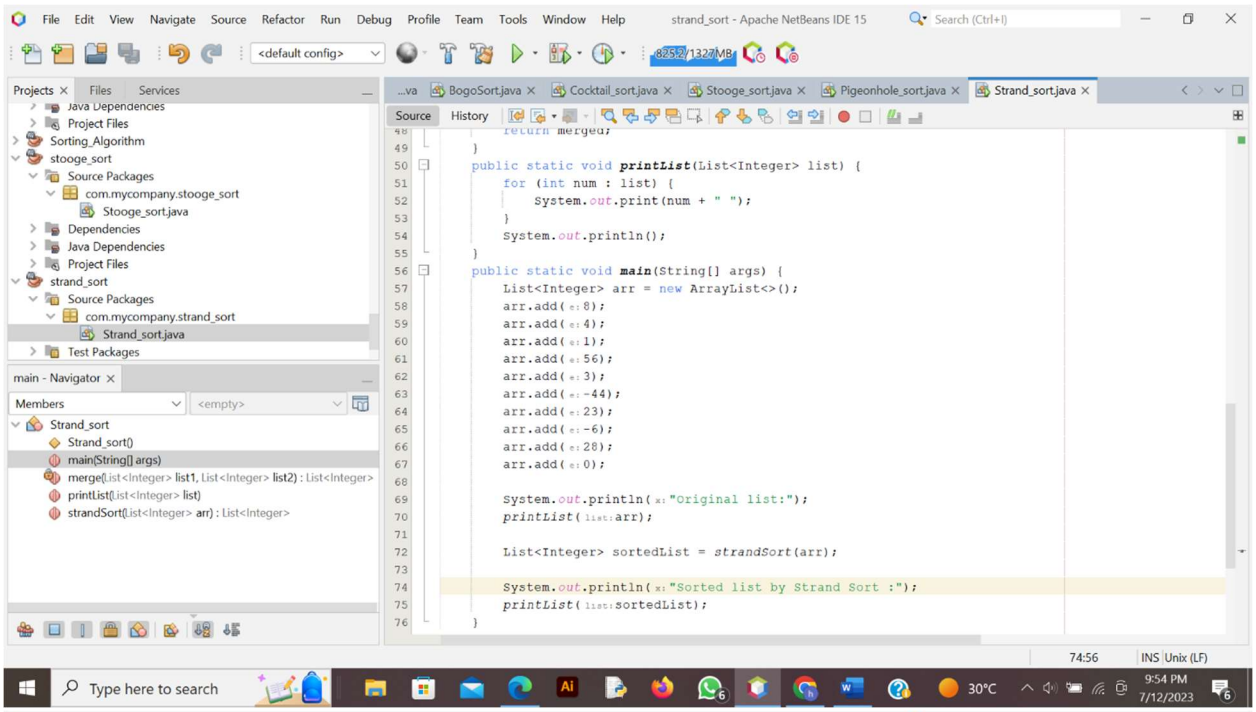
7/12/2023


File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help
strand_sort - Apache NetBeans IDE 15
Search (Ctrl+I)
<default config>
Projects
Files
Services
Sorting_Algorithm
stooge_sort
com.mycompany.stooge_sort
Stooge_sort.java
strand_sort
com.mycompany.strand_sort
Strand_sort.java
Test Packages
main - Navigator
Members
Strand_sort
Strand_sort()
main(String[] args)
merge(List<Integer> list1, List<Integer> list2) : List<Integer>
printList(List<Integer> list)
strandSort(List<Integer> arr) : List<Integer>
BogoSort.java
Cocktail_sort.java
Stooge_sort.java
Pigeonhole_sort.java
Strand_sort.java
Source
History
public static void printList(List<Integer> list) {
for (int num : list) {
System.out.print(num + " ");
}
System.out.println();
}
public static void main(String[] args) {
List<Integer> arr = new ArrayList<>();
arr.add(8);
arr.add(4);
arr.add(1);
arr.add(56);
arr.add(3);
arr.add(-44);
arr.add(23);
arr.add(-6);
arr.add(28);
arr.add(0);
System.out.println("Original list:");
printList(arr);
List<Integer> sortedList = strandSort(arr);
System.out.println("Sorted list by Strand Sort :");
printList(sortedList);
}
74:56
INS
Unix (LF)
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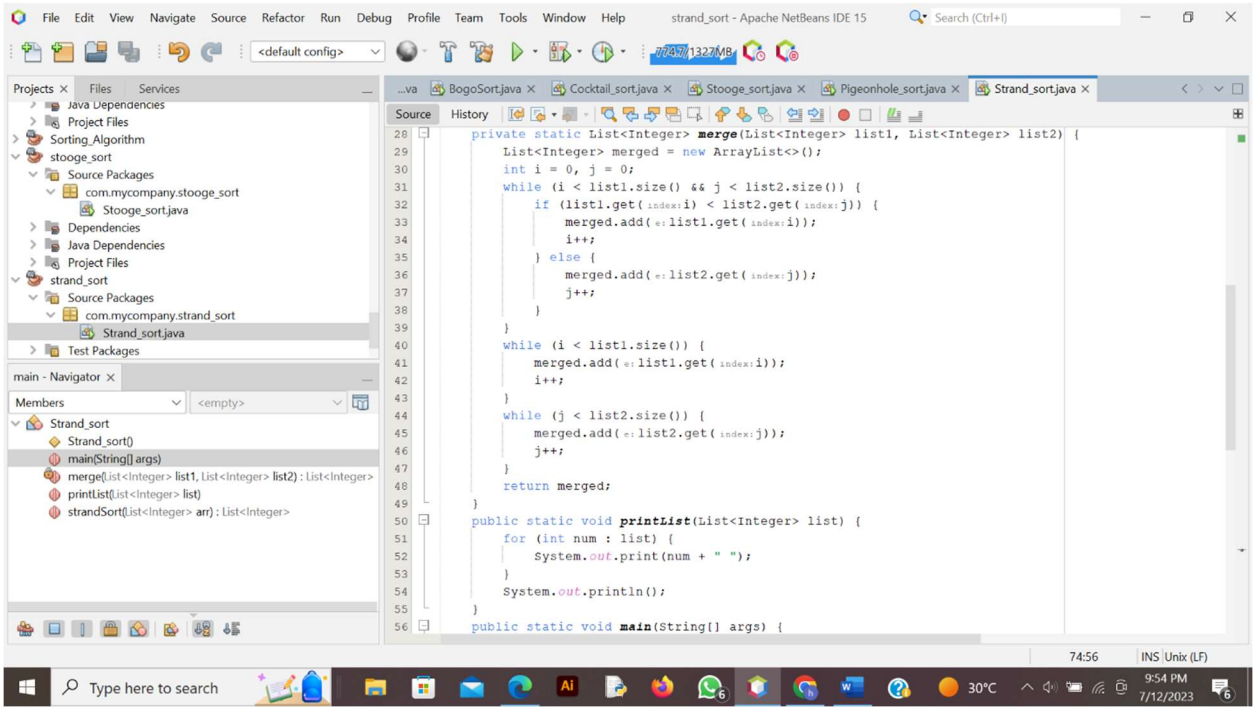
9:54 PM
7/12/2023


File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help
strand_sort - Apache NetBeans IDE 15
Search (Ctrl+I)
<default config>
Projects
Files
Services
Sorting_Algorithm
stooge_sort
com.mycompany.stooge_sort
Stooge_sort.java
strand_sort
com.mycompany.strand_sort
Strand_sort.java
Test Packages
main - Navigator
Members
Strand_sort
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printList(List<Integer> list)
strandSort(List<Integer> arr) : List<Integer>
BogoSort.java
Cocktail_sort.java
Stooge_sort.java
Pigeonhole_sort.java
Strand_sort.java
Source
History
private static List<Integer> merge(List<Integer> list1, List<Integer> list2) {
List<Integer> merged = new ArrayList<>();
int i = 0, j = 0;
while (i < list1.size() && j < list2.size()) {
if (list1.get(i) < list2.get(j)) {
merged.add(list1.get(i));
i++;
} else {
merged.add(list2.get(j));
j++;
}
}
while (i < list1.size()) {
merged.add(list1.get(i));
i++;
}
while (j < list2.size()) {
merged.add(list2.get(j));
j++;
}
return merged;
}
public static void printList(List<Integer> list) {
for (int num : list) {
System.out.print(num + " ");
}
System.out.println();
}
public static void main(String[] args) {
74:56
INS
Unix (LF)
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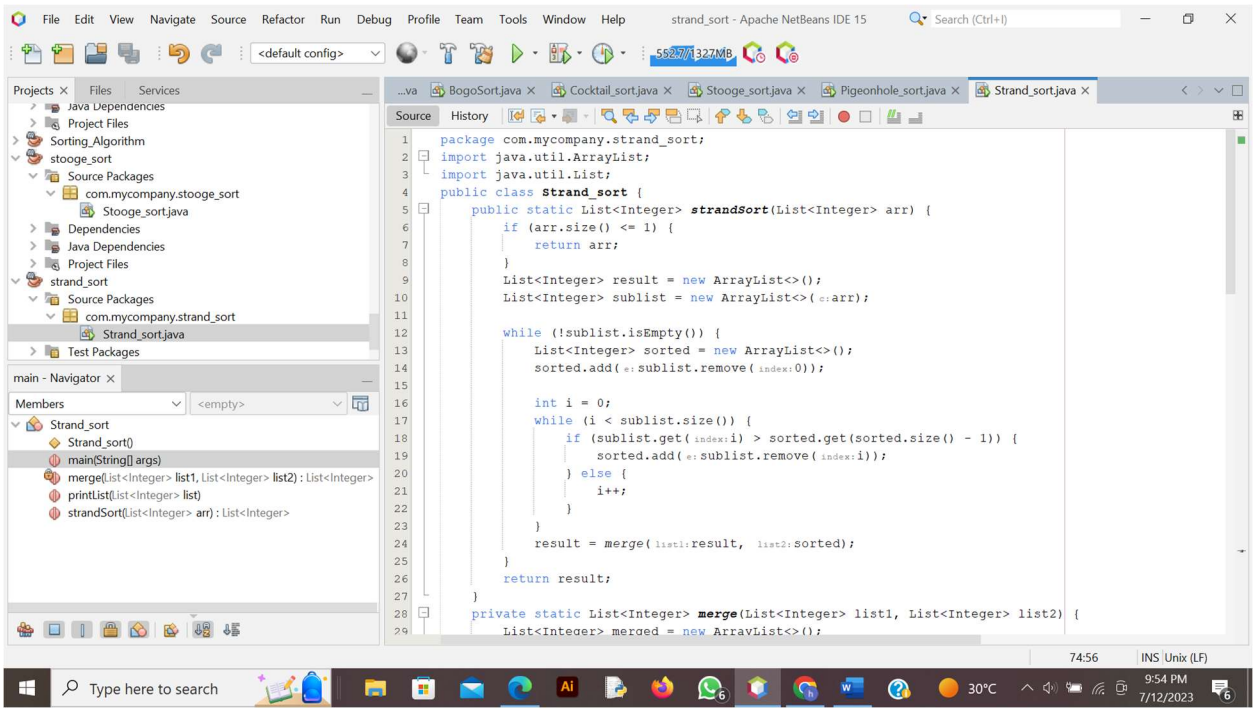
9:54 PM
7/12/2023


File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help
strand_sort - Apache NetBeans IDE 15
Search (Ctrl+I)
<default config>
Projects
Files
Services
Sorting_Algorithm
stooge_sort
Source Packages
com.mycompany.stooge_sort
Stooge_sort.java
Dependencies
Java Dependencies
Project Files
strand_sort
Source Packages
com.mycompany.strand_sort
Strand_sort.java
Test Packages
main - Navigator
Members
<empty>
Strand_sort
Strand_sort()
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printList(List<Integer> list)
strandSort(List<Integer> arr) : List<Integer>
BogoSort.java
Cocktail_sort.java
Stooge_sort.java
Pigeonhole_sort.java
Strand_sort.java
Source
History
package com.mycompany.strand_sort;
import java.util.ArrayList;
import java.util.List;
public class Strand_sort {
public static List<Integer> strandSort(List<Integer> arr) {
if (arr.size() <= 1) {
return arr;
}
List<Integer> result = new ArrayList<>();
List<Integer> sublist = new ArrayList<>(c:arr);
while (!sublist.isEmpty()) {
List<Integer> sorted = new ArrayList<>();
sorted.add(e:sublist.remove(index:0));
int i = 0;
while (i < sublist.size()) {
if (sublist.get(index:i) > sorted.get(sorted.size() - 1)) {
sorted.add(e:sublist.remove(index:i));
} else {
i++;
}
}
result = merge(list1:result, list2:sorted);
}
return result;
}
private static List<Integer> merge(List<Integer> list1, List<Integer> list2) {
List<Integer> merged = new ArrayList<>();
74:56
INS Unix (LF)
Type here to search
30°C
9:54 PM
7/12/2023