

CS471 Project 4

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Chapter 1

Class Index

1.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

FlowShops	??
NEH	??
Population	??

Chapter 2

File Index

2.1 File List

Here is a list of all files with brief descriptions:

C:/Users/Mathew Dela Cruz/Desktop/CWU Stuff/2021-2022/CWU Spring Quarter 2022/CS471/↔ Project4/Project4/ FlowShops.java	??
C:/Users/Mathew Dela Cruz/Desktop/CWU Stuff/2021-2022/CWU Spring Quarter 2022/CS471/↔ Project4/Project4/ NEH.java	??
C:/Users/Mathew Dela Cruz/Desktop/CWU Stuff/2021-2022/CWU Spring Quarter 2022/CS471/↔ Project4/Project4/ Population.java	??
C:/Users/Mathew Dela Cruz/Desktop/CWU Stuff/2021-2022/CWU Spring Quarter 2022/CS471/↔ Project4/Project4/ Project4.java	??

Chapter 3

Class Documentation

3.1 FlowShops Class Reference

Public Member Functions

- int [FSS](#) (int[][] processTimes, int m, int n)
- int [FSSB](#) (int[][] processTimes, int m, int n)

3.1.1 Member Function Documentation

3.1.1.1 FSS()

```
int FlowShops.FSS (  
    int processTimes[][],  
    int m,  
    int n )
```

3.1.1.2 FSSB()

```
int FlowShops.FSSB (  
    int processTimes[][],  
    int m,  
    int n )
```

The documentation for this class was generated from the following file:

- C:/Users/Mathew Dela Cruz/Desktop/CWU Stuff/2021-2022/CWU Spring Quarter 2022/CS471/Project4/↔
Project4/[FlowShops.java](#)

3.2 NEH Class Reference

Public Member Functions

- `int[] runNEH (int[][] processTimes, int m, int n, int flowMethod)`
- `int[] bestJobSequence (int[][] processTimes, int[] jobSequence, int n, int m, int flowMethod)`
- `int[][] sequenceTimes (int[][] processTimes, int m, int n, int jobSequence[])`

Static Public Member Functions

- `static int[] insertElement (int n, int arr[], int element, int index)`

3.2.1 Member Function Documentation

3.2.1.1 bestJobSequence()

```
int[] NEH.bestJobSequence (
    int processTimes[][],
    int[] jobSequence,
    int n,
    int m,
    int flowMethod )
```

3.2.1.2 insertElement()

```
static int[] NEH.insertElement (
    int n,
    int arr[],
    int element,
    int index ) [static]
```

3.2.1.3 runNEH()

```
int[] NEH.runNEH (
    int processTimes[][],
    int m,
    int n,
    int flowMethod )
```


3.2.1.4 sequenceTimes()

```
int[][] NEH.sequenceTimes (
    int processTimes[][],
    int m,
    int n,
    int jobSequence[] )
```

The documentation for this class was generated from the following file:

- C:/Users/Mathew Dela Cruz/Desktop/CWU Stuff/2021-2022/CWU Spring Quarter 2022/CS471/Project4/↵
Project4/[NEH.java](#)

3.3 Population Class Reference

Public Member Functions

- void [printMatrix](#) (int[][] matr)
- void [writeSpanTimes](#) (String instance, int m, int n, int FSSspan, int FSSBspan, long FSStime, long FSSBtime, String file) throws Exception
- void [writeJobSequence](#) (String instance, int[] FSSsequence, int[] FSSBsequence, String file) throws Exception

3.3.1 Member Function Documentation

3.3.1.1 printMatrix()

```
void Population.printMatrix (
    int matr[][])
```

3.3.1.2 writeJobSequence()

```
void Population.writeJobSequence (
    String instance,
    int[] FSSsequence,
    int[] FSSBsequence,
    String file ) throws Exception
```

3.3.1.3 writeSpanTimes()

```
void Population.writeSpanTimes (
    String instance,
    int m,
    int n,
    int FSSspan,
    int FSSBspan,
    long FSStime,
    long FSSBtime,
    String file ) throws Exception
```

The documentation for this class was generated from the following file:

- C:/Users/Mathew Dela Cruz/Desktop/CWU Stuff/2021-2022/CWU Spring Quarter 2022/CS471/Project4/↵
Project4/[Population.java](#)

Chapter 4

File Documentation

4.1 C:/Users/Mathew Dela Cruz/Desktop/CWU Stuff/2021-2022/CWU Spring Quarter 2022/CS471/Project4/Project4/FlowShops.java File Reference

Classes

- class [FlowShops](#)

4.2 C:/Users/Mathew Dela Cruz/Desktop/CWU Stuff/2021-2022/CWU Spring Quarter 2022/CS471/Project4/Project4/NEH.java File Reference

Classes

- class [NEH](#)

4.3 C:/Users/Mathew Dela Cruz/Desktop/CWU Stuff/2021-2022/CWU Spring Quarter 2022/CS471/Project4/Project4/Population.java File Reference

Classes

- class [Population](#)

4.4 C:/Users/Mathew Dela Cruz/Desktop/CWU Stuff/2021-2022/CWU Spring Quarter 2022/CS471/Project4/Project4/Project4.java File Reference

Classes

- class [Project4](#)

