

# CE100 Algorithm and Programing hw2

v1.0.0

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# Chapter 1

## Namespace Index

### 1.1 Namespace List

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## Chapter 2

# Data Structure Index

### 2.1 Data Structures

Here are the data structures with brief descriptions:

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## Chapter 3

# File Index

### 3.1 File List

Here is a list of all files with brief descriptions:

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C:/ce100-hw2-haluk-kurtulus/ce100-hw1-haluk-kurtulus/obj/Debug/net6.0/ <a href="#">ce100-hw1-haluk-kurtulus.AssemblyInfo.cs</a> <a href="#">38</a>	
C:/ce100-hw2-haluk-kurtulus/ce100-hw1-haluk-kurtulus/obj/Debug/net6.0/ <a href="#">ce100-hw1-haluk-kurtulus.GlobalUsings.g.cs</a> <a href="#">38</a>	
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## Chapter 4

# Namespace Documentation

### 4.1 ce100\_hw2\_haluk\_kurtulus Namespace Reference

#### Data Structures

- class [GFG](#)
- class [GFG2](#)
- class [GFG3](#)
- class [HeapSort](#)
- class [KNAPSACK](#)
- class [LCS](#)

### 4.2 ce100\_hw2\_haluk\_kurtulus\_test Namespace Reference

#### Data Structures

- class [HeapSortTests](#)

### 4.3 ce100\_hw2\_test Namespace Reference

#### Data Structures

- class [HeapSortTest](#)



## Chapter 5

# Data Structure Documentation

### 5.1 ce100\_hw2\_haluk\_kurtulus.GFG Class Reference

#### Static Public Member Functions

- static int [MatrixChainOrder](#) (int[ ] p, int i, int j)
- static void [Main](#) ()

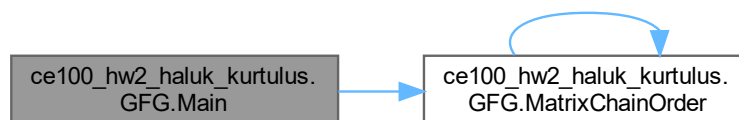
#### 5.1.1 Member Function Documentation

##### 5.1.1.1 Main()

```
static void ce100_hw2_haluk_kurtulus.GFG.Main ( ) [inline], [static]
```

References [ce100\\_hw2\\_haluk\\_kurtulus.GFG.MatrixChainOrder\(\)](#).

Here is the call graph for this function:



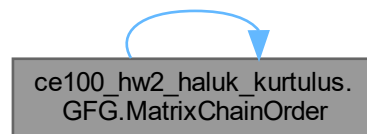
### 5.1.1.2 MatrixChainOrder()

```
static int ce100_hw2_haluk_kurtulus.GFG.MatrixChainOrder (
    int[] p,
    int i,
    int j ) [inline], [static]
```

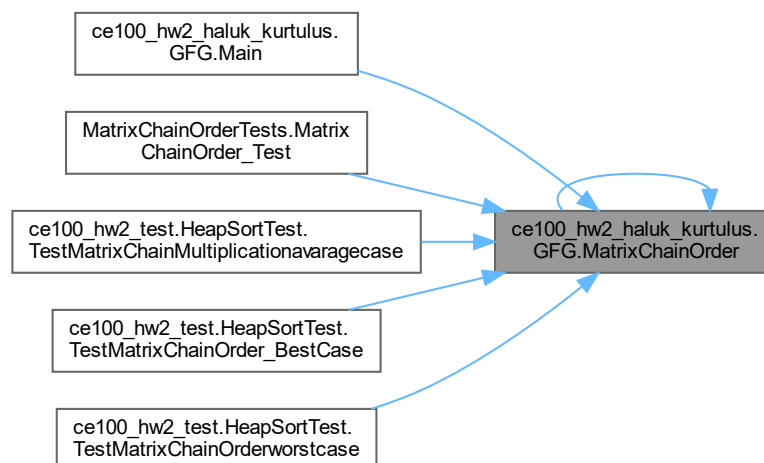
References [ce100\\_hw2\\_haluk\\_kurtulus.GFG.MatrixChainOrder\(\)](#).

Referenced by [ce100\\_hw2\\_haluk\\_kurtulus.GFG.Main\(\)](#), [ce100\\_hw2\\_haluk\\_kurtulus.GFG.MatrixChainOrder\(\)](#), [MatrixChainOrderTests.MatrixChainOrder\\_Test\(\)](#), [ce100\\_hw2\\_test.HeapSortTest.TestMatrixChainMultiplicationavaragecase\(\)](#), [ce100\\_hw2\\_test.HeapSortTest.TestMatrixChainOrder\\_BestCase\(\)](#), and [ce100\\_hw2\\_test.HeapSortTest.TestMatrixChainOrderworstcase\(\)](#).

Here is the call graph for this function:



Here is the caller graph for this function:



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

- [C:/ce100-hw2-haluk-kurtulus/ce100-hw1-haluk-kurtulus/Class1.cs](#)



## 5.2 ce100\_hw2\_haluk\_kurtulus.GFG2 Class Reference

### Static Public Member Functions

- static int [MatrixChainOrder](#) (int[] p, int n)

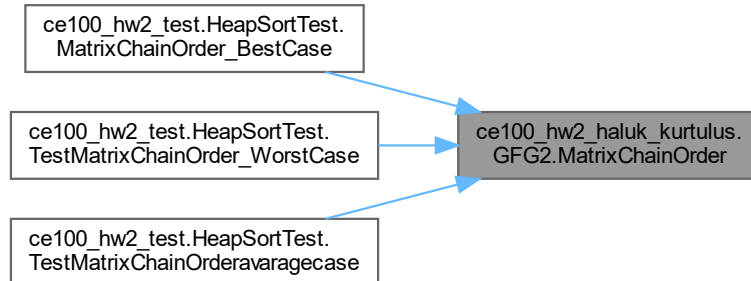
### 5.2.1 Member Function Documentation

#### 5.2.1.1 MatrixChainOrder()

```
static int ce100_hw2_haluk_kurtulus.GFG2.MatrixChainOrder (  
    int[] p,  
    int n ) [inline], [static]
```

Referenced by [ce100\\_hw2\\_test.HeapSortTest.MatrixChainOrder\\_BestCase\(\)](#), [ce100\\_hw2\\_test.HeapSortTest.TestMatrixChainOrder\\_](#)  
and [ce100\\_hw2\\_test.HeapSortTest.TestMatrixChainOrderavaragecase\(\)](#).

Here is the caller graph for this function:

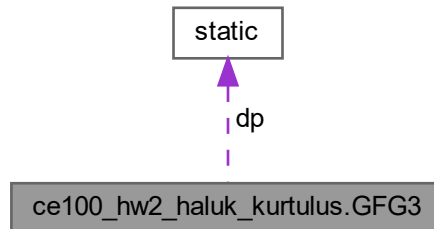


The documentation for this class was generated from the following file:

- C:/ce100-hw2-haluk-kurtulus/ce100-hw1-haluk-kurtulus/[Class1.cs](#)

### 5.3 ce100\_hw2\_haluk\_kurtulus.GFG3 Class Reference

Collaboration diagram for ce100\_hw2\_haluk\_kurtulus.GFG3:



#### Static Public Member Functions

- static int [MatrixChainOrder](#) (int[] p, int n)

#### Static Public Attributes

- static int[,][dp](#) = new int[100, 100]

#### Static Private Member Functions

- static int [matrixChainMemoised](#) (int[] p, int i, int j)

### 5.3.1 Member Function Documentation

#### 5.3.1.1 matrixChainMemoised()

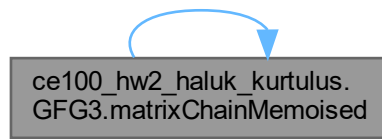
```

static int ce100_hw2_haluk_kurtulus.GFG3.matrixChainMemoised (
    int[] p,
    int i,
    int j ) [inline], [static], [private]
  
```

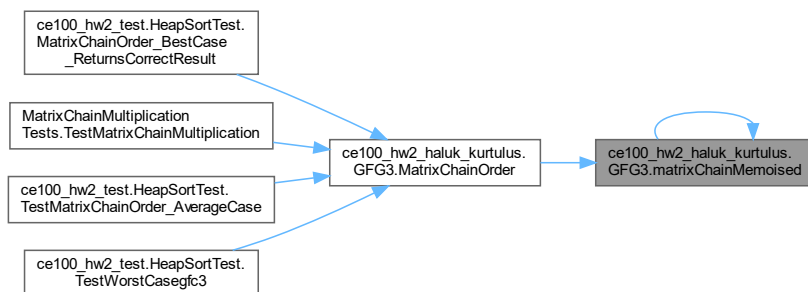
References [ce100\\_hw2\\_haluk\\_kurtulus.GFG3.dp](#), and [ce100\\_hw2\\_haluk\\_kurtulus.GFG3.matrixChainMemoised\(\)](#).

Referenced by [ce100\\_hw2\\_haluk\\_kurtulus.GFG3.matrixChainMemoised\(\)](#), and [ce100\\_hw2\\_haluk\\_kurtulus.GFG3.MatrixChainOrder](#)

Here is the call graph for this function:



Here is the caller graph for this function:



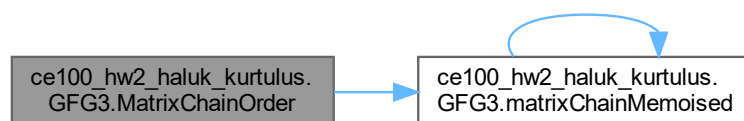
### 5.3.1.2 MatrixChainOrder()

```
static int ce100_hw2_haluk_kurtulus.GFG3.MatrixChainOrder (
    int[] p,
    int n ) [inline], [static]
```

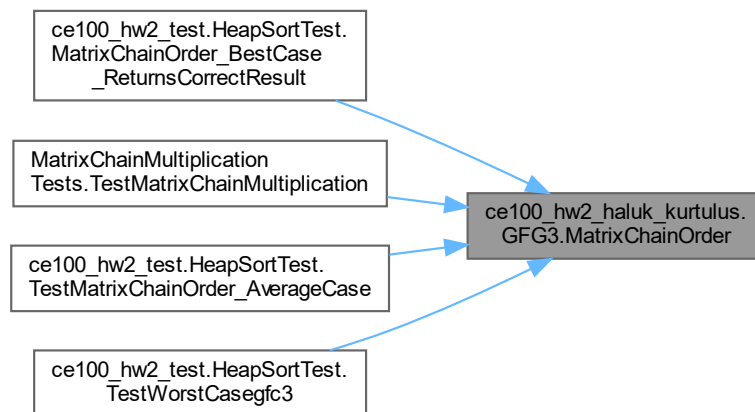
References [ce100\\_hw2\\_haluk\\_kurtulus.GFG3.matrixChainMemoised\(\)](#).

Referenced by [ce100\\_hw2\\_test.HeapSortTest.MatrixChainOrder\\_BestCase\\_ReturnsCorrectResult\(\)](#), [MatrixChainMultiplicationTests.TestMatrixChainMultiplication\(\)](#), [ce100\\_hw2\\_test.HeapSortTest.TestMatrixChainOrder\\_AverageCase\(\)](#), and [ce100\\_hw2\\_test.HeapSortTest.TestWorstCasegfc3\(\)](#).

Here is the call graph for this function:



Here is the caller graph for this function:



## 5.3.2 Field Documentation

### 5.3.2.1 dp

```
int [,] ce100_hw2_haluk_kurtulus.GFG3.dp = new int[100, 100] [static]
```

Referenced by [ce100\\_hw2\\_haluk\\_kurtulus.GFG3.matrixChainMemoised\(\)](#).

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

- C:/ce100-hw2-haluk-kurtulus/ce100-hw1-haluk-kurtulus/[Class1.cs](#)

## 5.4 ce100\_hw2\_haluk\_kurtulus.HeapSort Class Reference

### Public Member Functions

- void [sort](#) (int[] arr)

### Static Public Member Functions

- static void [Main](#) ()

### Private Member Functions

- void [heapify](#) (int[] arr, int N, int i)

## Static Private Member Functions

- static void [printArray](#) (int[] arr)

### 5.4.1 Member Function Documentation

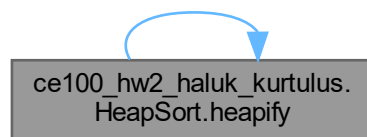
#### 5.4.1.1 heapify()

```
void ce100_hw2_haluk_kurtulus.HeapSort.heapify (  
    int[] arr,  
    int N,  
    int i ) [inline], [private]
```

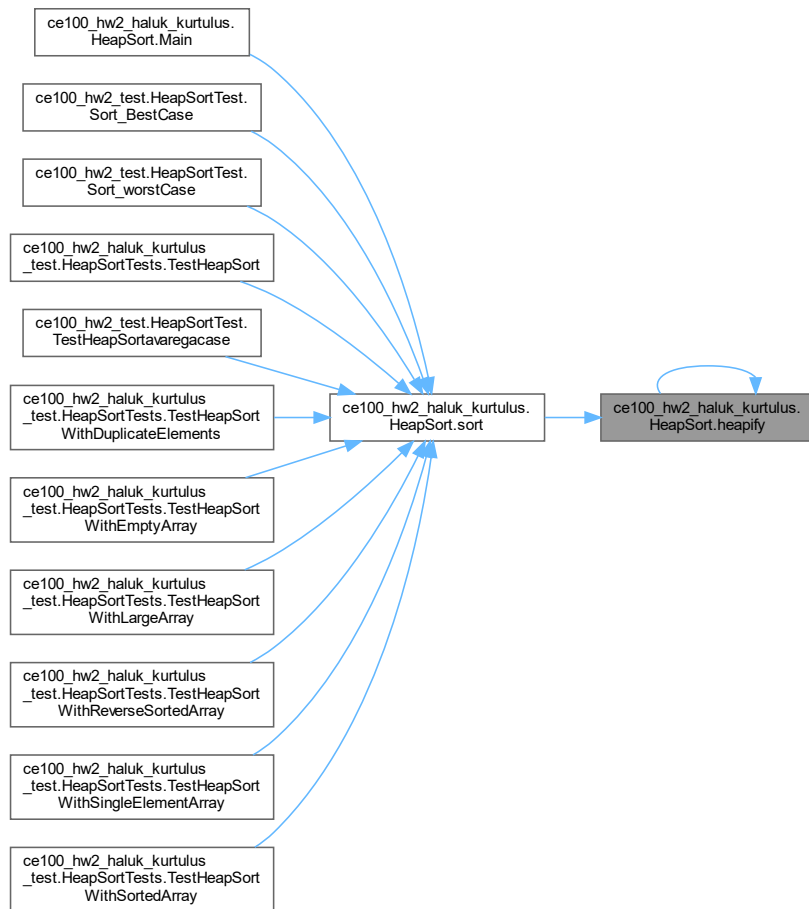
References [ce100\\_hw2\\_haluk\\_kurtulus.HeapSort.heapify\(\)](#).

Referenced by [ce100\\_hw2\\_haluk\\_kurtulus.HeapSort.heapify\(\)](#), and [ce100\\_hw2\\_haluk\\_kurtulus.HeapSort.sort\(\)](#).

Here is the call graph for this function:



Here is the caller graph for this function:

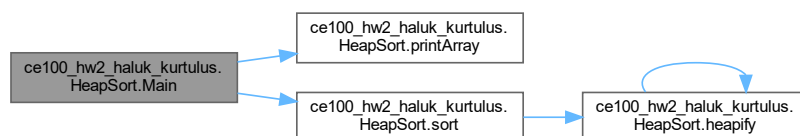


#### 5.4.1.2 Main()

```
static void ce100_hw2_haluk_kurtulus.HeapSort.Main ( ) [inline], [static]
```

References [ce100\\_hw2\\_haluk\\_kurtulus.HeapSort.printArray\(\)](#), and [ce100\\_hw2\\_haluk\\_kurtulus.HeapSort.sort\(\)](#).

Here is the call graph for this function:



### 5.4.1.3 printArray()

```
static void ce100_hw2_haluk_kurtulus.HeapSort.printArray (  
    int[] arr ) [inline], [static], [private]
```

Referenced by [ce100\\_hw2\\_haluk\\_kurtulus.HeapSort.Main\(\)](#).

Here is the caller graph for this function:



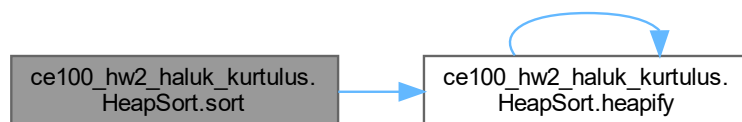
### 5.4.1.4 sort()

```
void ce100_hw2_haluk_kurtulus.HeapSort.sort (  
    int[] arr ) [inline]
```

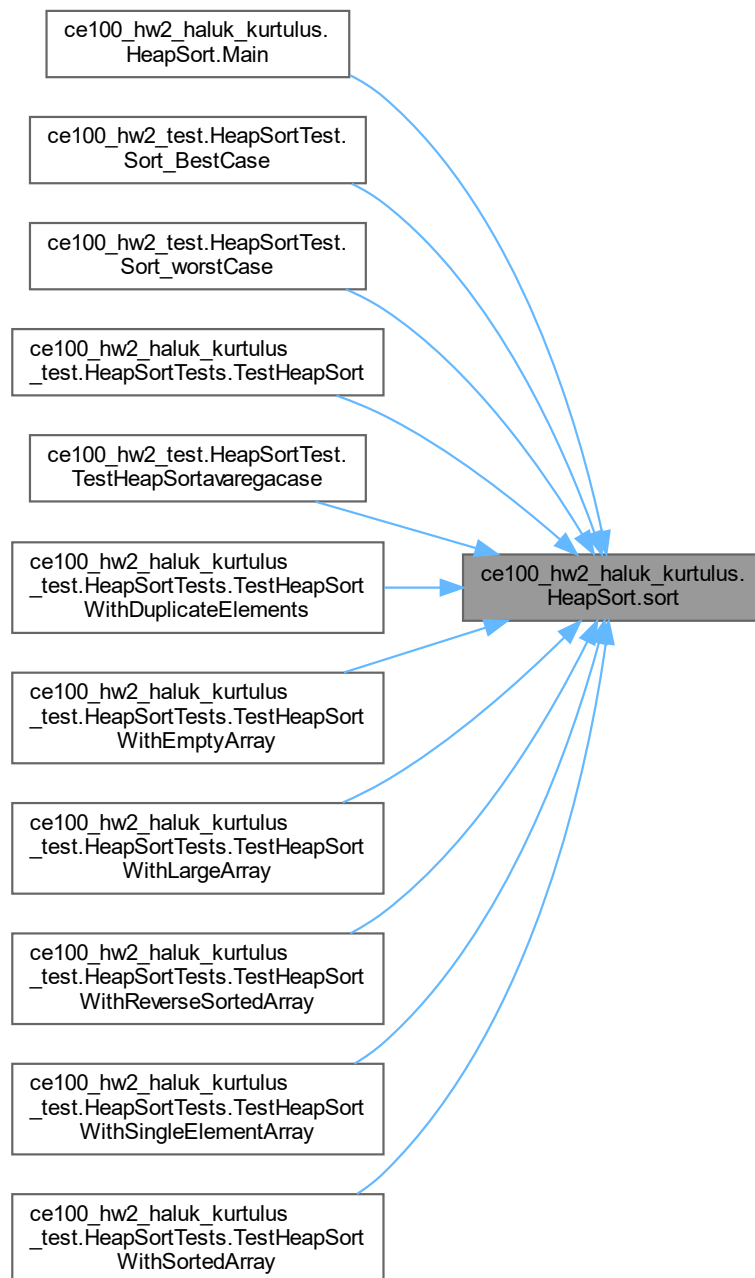
References [ce100\\_hw2\\_haluk\\_kurtulus.HeapSort.heapify\(\)](#).

Referenced by [ce100\\_hw2\\_haluk\\_kurtulus.HeapSort.Main\(\)](#), [ce100\\_hw2\\_test.HeapSortTest.Sort\\_BestCase\(\)](#), [ce100\\_hw2\\_test.HeapSortTest.Sort\\_worstCase\(\)](#), [ce100\\_hw2\\_haluk\\_kurtulus\\_test.HeapSortTests.TestHeapSort\(\)](#), [ce100\\_hw2\\_test.HeapSortTest.TestHeapSortavaregacase\(\)](#), [ce100\\_hw2\\_haluk\\_kurtulus\\_test.HeapSortTests.TestHeapSortWithDupl](#), [ce100\\_hw2\\_haluk\\_kurtulus\\_test.HeapSortTests.TestHeapSortWithEmptyArray\(\)](#), [ce100\\_hw2\\_haluk\\_kurtulus\\_test.HeapSortTests.TestHeapSortWithReverseSortedArray\(\)](#), [ce100\\_hw2\\_haluk\\_kurtulus\\_test.HeapSort](#) and [ce100\\_hw2\\_haluk\\_kurtulus\\_test.HeapSortTests.TestHeapSortWithSortedArray\(\)](#).

Here is the call graph for this function:



Here is the caller graph for this function:



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

- [C:/ce100-hw2-haluk-kurtulus/ce100-hw1-haluk-kurtulus/Class1.cs](#)



## 5.5 ce100\_hw2\_test.HeapSortTest Class Reference

### Public Member Functions

- void [TestHeapSortavaregacase](#) ()
- void [Sort\\_BestCase](#) ()
- void [Sort\\_worstCase](#) ()
- void [TestMatrixChainOrderworstcase](#) ()
- void [TestMatrixChainMultiplicationavaragecase](#) ()
- void [TestMatrixChainOrder\\_BestCase](#) ()
- void [MatrixChainOrder\\_BestCase](#) ()
- void [TestMatrixChainOrderavaragecase](#) ()
- void [TestMatrixChainOrder\\_WorstCase](#) ()
- void [TestWorstCasegfc3](#) ()
- void [MatrixChainOrder\\_BestCase\\_ReturnsCorrectResult](#) ()
- void [TestMatrixChainOrder\\_AverageCase](#) ()
- void [TestLCSavaragecase](#) ()
- void [TestLCSBestCase](#) ()
- void [TestLCS\\_WorstCase](#) ()
- void [TestknapsackWorstCase](#) ()
- void [TestKnapSackBestCase](#) ()
- void [TestKnapSackAverageCase](#) ()

### 5.5.1 Member Function Documentation

#### 5.5.1.1 MatrixChainOrder\_BestCase()

```
void ce100_hw2_test.HeapSortTest.MatrixChainOrder_BestCase ( ) [inline]
```

References [ce100\\_hw2\\_haluk\\_kurtulus.GFG2.MatrixChainOrder\(\)](#).

Here is the call graph for this function:

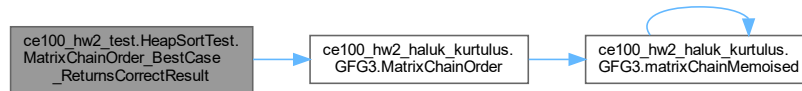


### 5.5.1.2 MatrixChainOrder\_BestCase\_ReturnsCorrectResult()

```
void ce100_hw2_test.HeapSortTest.MatrixChainOrder_BestCase_ReturnsCorrectResult ( ) [inline]
```

References [ce100\\_hw2\\_haluk\\_kurtulus.GFG3.MatrixChainOrder\(\)](#).

Here is the call graph for this function:

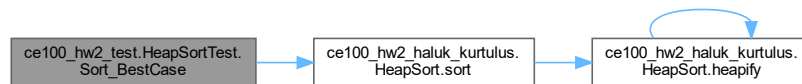


### 5.5.1.3 Sort\_BestCase()

```
void ce100_hw2_test.HeapSortTest.Sort_BestCase ( ) [inline]
```

References [ce100\\_hw2\\_haluk\\_kurtulus.HeapSort.sort\(\)](#).

Here is the call graph for this function:

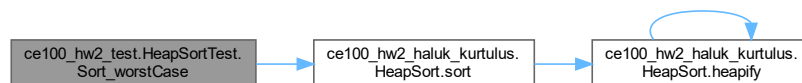


### 5.5.1.4 Sort\_worstCase()

```
void ce100_hw2_test.HeapSortTest.Sort_worstCase ( ) [inline]
```

References [ce100\\_hw2\\_haluk\\_kurtulus.HeapSort.sort\(\)](#).

Here is the call graph for this function:

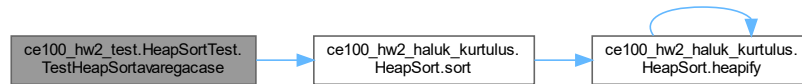


### 5.5.1.5 TestHeapSortavaregacase()

```
void ce100_hw2_test.HeapSortTest.TestHeapSortavaregacase ( ) [inline]
```

References [ce100\\_hw2\\_haluk\\_kurtulus.HeapSort.sort\(\)](#).

Here is the call graph for this function:

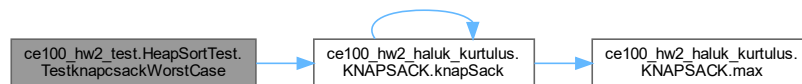


### 5.5.1.6 TestknapcsackWorstCase()

```
void ce100_hw2_test.HeapSortTest.TestknapcsackWorstCase ( ) [inline]
```

References [ce100\\_hw2\\_haluk\\_kurtulus.KNAPSACK.knapSack\(\)](#).

Here is the call graph for this function:

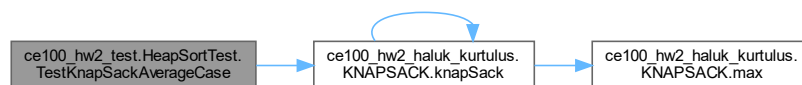


### 5.5.1.7 TestKnapSackAverageCase()

```
void ce100_hw2_test.HeapSortTest.TestKnapSackAverageCase ( ) [inline]
```

References [ce100\\_hw2\\_haluk\\_kurtulus.KNAPSACK.knapSack\(\)](#).

Here is the call graph for this function:

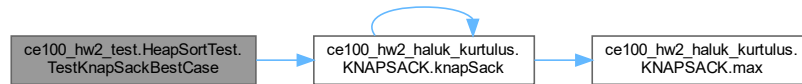


### 5.5.1.8 TestKnapSackBestCase()

```
void ce100_hw2_test.HeapSortTest.TestKnapSackBestCase ( ) [inline]
```

References [ce100\\_hw2\\_haluk\\_kurtulus.KNAPSACK.knapSack\(\)](#).

Here is the call graph for this function:

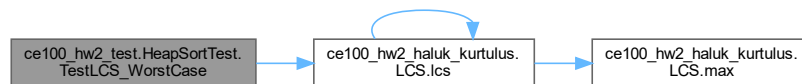


### 5.5.1.9 TestLCS\_WorstCase()

```
void ce100_hw2_test.HeapSortTest.TestLCS_WorstCase ( ) [inline]
```

References [ce100\\_hw2\\_haluk\\_kurtulus.LCS.lcs\(\)](#).

Here is the call graph for this function:



### 5.5.1.10 TestLCSavaragecase()

```
void ce100_hw2_test.HeapSortTest.TestLCSavaragecase ( ) [inline]
```

References [ce100\\_hw2\\_haluk\\_kurtulus.LCS.lcs\(\)](#).

Here is the call graph for this function:

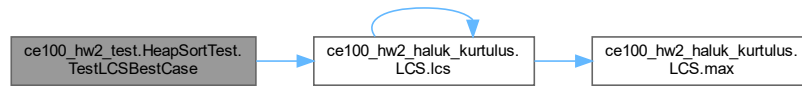


#### 5.5.1.11 TestLCSBestCase()

```
void ce100_hw2_test.HeapSortTest.TestLCSBestCase ( ) [inline]
```

References [ce100\\_hw2\\_haluk\\_kurtulus.LCS.lcs\(\)](#).

Here is the call graph for this function:

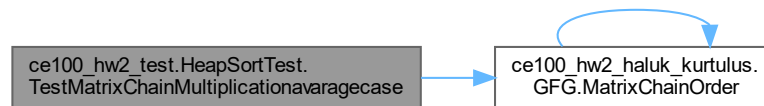


#### 5.5.1.12 TestMatrixChainMultiplicationavaragecase()

```
void ce100_hw2_test.HeapSortTest.TestMatrixChainMultiplicationavaragecase ( ) [inline]
```

References [ce100\\_hw2\\_haluk\\_kurtulus.GFG.MatrixChainOrder\(\)](#).

Here is the call graph for this function:

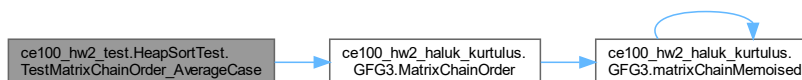


#### 5.5.1.13 TestMatrixChainOrder\_AverageCase()

```
void ce100_hw2_test.HeapSortTest.TestMatrixChainOrder_AverageCase ( ) [inline]
```

References [ce100\\_hw2\\_haluk\\_kurtulus.GFG3.MatrixChainOrder\(\)](#).

Here is the call graph for this function:

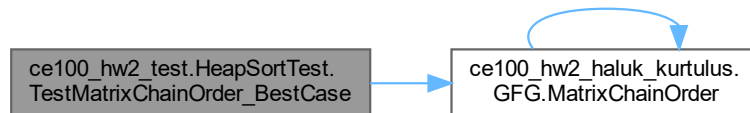


#### 5.5.1.14 TestMatrixChainOrder\_BestCase()

```
void ce100_hw2_test.HeapSortTest.TestMatrixChainOrder_BestCase ( ) [inline]
```

References [ce100\\_hw2\\_haluk\\_kurtulus.GFG.MatrixChainOrder\(\)](#).

Here is the call graph for this function:

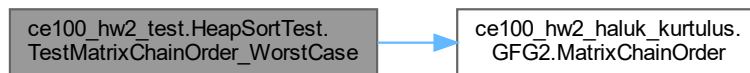


#### 5.5.1.15 TestMatrixChainOrder\_WorstCase()

```
void ce100_hw2_test.HeapSortTest.TestMatrixChainOrder_WorstCase ( ) [inline]
```

References [ce100\\_hw2\\_haluk\\_kurtulus.GFG2.MatrixChainOrder\(\)](#).

Here is the call graph for this function:

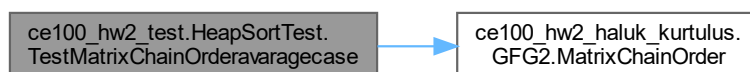


#### 5.5.1.16 TestMatrixChainOrderavaragecase()

```
void ce100_hw2_test.HeapSortTest.TestMatrixChainOrderavaragecase ( ) [inline]
```

References [ce100\\_hw2\\_haluk\\_kurtulus.GFG2.MatrixChainOrder\(\)](#).

Here is the call graph for this function:



#### 5.5.1.17 TestMatrixChainOrderworstcase()

```
void ce100_hw2_test.HeapSortTest.TestMatrixChainOrderworstcase ( ) [inline]
```

References [ce100\\_hw2\\_haluk\\_kurtulus.GFG.MatrixChainOrder\(\)](#).

Here is the call graph for this function:

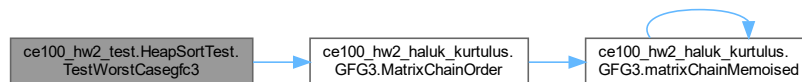


#### 5.5.1.18 TestWorstCasegfc3()

```
void ce100_hw2_test.HeapSortTest.TestWorstCasegfc3 ( ) [inline]
```

References [ce100\\_hw2\\_haluk\\_kurtulus.GFG3.MatrixChainOrder\(\)](#).

Here is the call graph for this function:



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

- `C:/ce100-hw2-haluk-kurtulus/ce100-hw2-test/UnitTest1.cs`

## 5.6 ce100\_hw2\_haluk\_kurtulus\_test.HeapSortTests Class Reference

### Public Member Functions

- void [TestHeapSort](#) ()
- void [TestHeapSortWithEmptyArray](#) ()
- void [TestHeapSortWithSingleElementArray](#) ()
- void [TestHeapSortWithSortedArray](#) ()
- void [TestHeapSortWithReverseSortedArray](#) ()
- void [TestHeapSortWithDuplicateElements](#) ()
- void [TestHeapSortWithLargeArray](#) ()

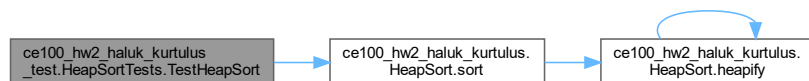
## 5.6.1 Member Function Documentation

### 5.6.1.1 TestHeapSort()

```
void ce100_hw2_haluk_kurtulus_test.HeapSortTests.TestHeapSort ( ) [inline]
```

References [ce100\\_hw2\\_haluk\\_kurtulus.HeapSort.sort\(\)](#).

Here is the call graph for this function:

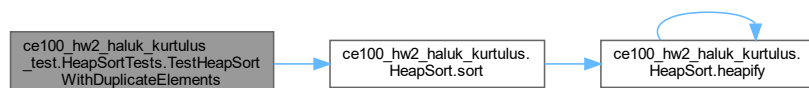


### 5.6.1.2 TestHeapSortWithDuplicateElements()

```
void ce100_hw2_haluk_kurtulus_test.HeapSortTests.TestHeapSortWithDuplicateElements ( ) [inline]
```

References [ce100\\_hw2\\_haluk\\_kurtulus.HeapSort.sort\(\)](#).

Here is the call graph for this function:

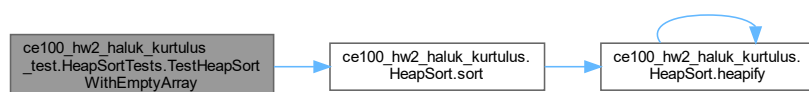


### 5.6.1.3 TestHeapSortWithEmptyArray()

```
void ce100_hw2_haluk_kurtulus_test.HeapSortTests.TestHeapSortWithEmptyArray ( ) [inline]
```

References [ce100\\_hw2\\_haluk\\_kurtulus.HeapSort.sort\(\)](#).

Here is the call graph for this function:



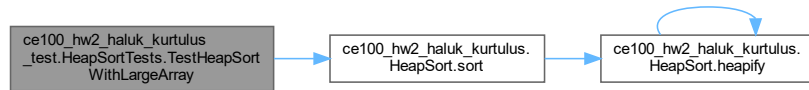


#### 5.6.1.4 TestHeapSortWithLargeArray()

```
void ce100_hw2_haluk_kurtulus_test.HeapSortTests.TestHeapSortWithLargeArray ( ) [inline]
```

References [ce100\\_hw2\\_haluk\\_kurtulus.HeapSort.sort\(\)](#).

Here is the call graph for this function:

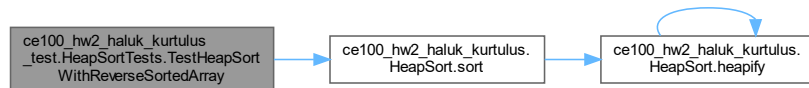


#### 5.6.1.5 TestHeapSortWithReverseSortedArray()

```
void ce100_hw2_haluk_kurtulus_test.HeapSortTests.TestHeapSortWithReverseSortedArray ( ) [inline]
```

References [ce100\\_hw2\\_haluk\\_kurtulus.HeapSort.sort\(\)](#).

Here is the call graph for this function:

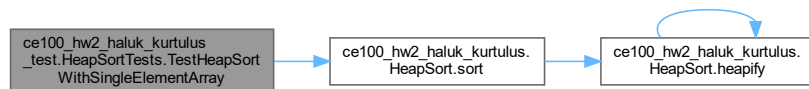


#### 5.6.1.6 TestHeapSortWithSingleElementArray()

```
void ce100_hw2_haluk_kurtulus_test.HeapSortTests.TestHeapSortWithSingleElementArray ( ) [inline]
```

References [ce100\\_hw2\\_haluk\\_kurtulus.HeapSort.sort\(\)](#).

Here is the call graph for this function:

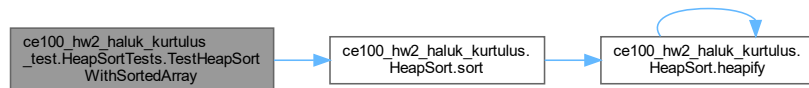


### 5.6.1.7 TestHeapSortWithSortedArray()

```
void ce100_hw2_haluk_kurtulus_test.HeapSortTests.TestHeapSortWithSortedArray ( ) [inline]
```

References [ce100\\_hw2\\_haluk\\_kurtulus.HeapSort.sort\(\)](#).

Here is the call graph for this function:



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

- [C:/ce100-hw2-haluk-kurtulus/ce100-hw2-haluk-kurtulus/UnitTest1.cs](#)

## 5.7 ce100\_hw2\_haluk\_kurtulus.KNAPSACK Class Reference

### Static Public Member Functions

- static int [knapSack](#) (int W, int[] wt, int[] val, int n)

### Static Private Member Functions

- static int [max](#) (int a, int b)

### 5.7.1 Member Function Documentation

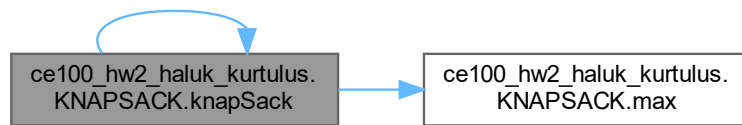
#### 5.7.1.1 knapSack()

```
static int ce100_hw2_haluk_kurtulus.KNAPSACK.knapSack (
    int W,
    int[] wt,
    int[] val,
    int n ) [inline], [static]
```

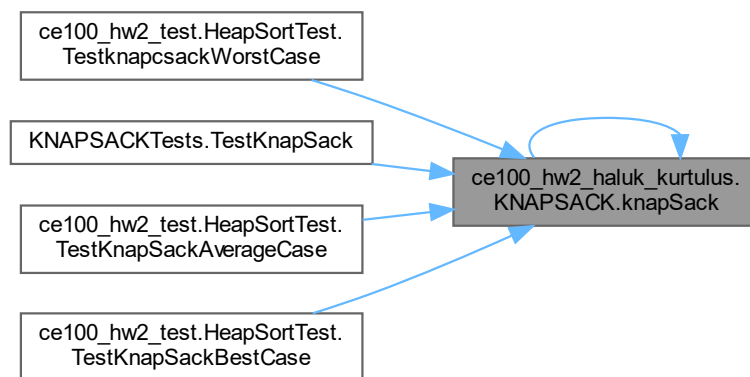
References [ce100\\_hw2\\_haluk\\_kurtulus.KNAPSACK.knapSack\(\)](#), and [ce100\\_hw2\\_haluk\\_kurtulus.KNAPSACK.max\(\)](#).

Referenced by [ce100\\_hw2\\_haluk\\_kurtulus.KNAPSACK.knapSack\(\)](#), [ce100\\_hw2\\_test.HeapSortTest.TestknapcsackWorstCase\(\)](#), [KNAPSACKTests.TestKnapSack\(\)](#), [ce100\\_hw2\\_test.HeapSortTest.TestKnapSackAverageCase\(\)](#), and [ce100\\_hw2\\_test.HeapSortTest](#)

Here is the call graph for this function:



Here is the caller graph for this function:

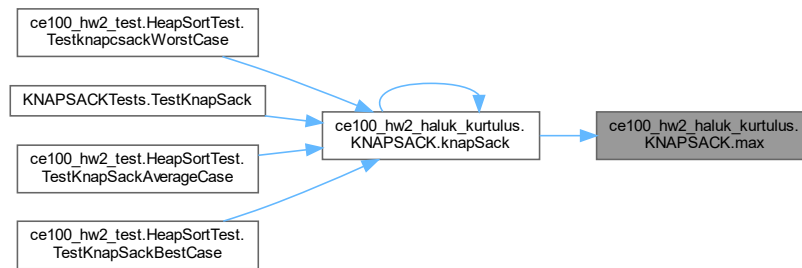


### 5.7.1.2 max()

```
static int ce100_hw2_haluk_kurtulus.KNAPSACK.max (
    int a,
    int b ) [inline], [static], [private]
```

Referenced by [ce100\\_hw2\\_haluk\\_kurtulus.KNAPSACK.knapSack\(\)](#).

Here is the caller graph for this function:



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

- [C:/ce100-hw2-haluk-kurtulus/ce100-hw1-haluk-kurtulus/Class1.cs](#)

## 5.8 KNAPSACKTests Class Reference

### Public Member Functions

- void [TestKnapSack](#) ()

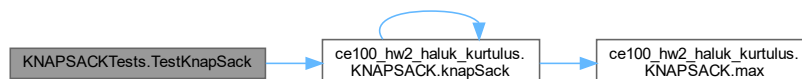
#### 5.8.1 Member Function Documentation

##### 5.8.1.1 TestKnapSack()

```
void KNAPSACKTests.TestKnapSack ( ) [inline]
```

References [ce100\\_hw2\\_haluk\\_kurtulus.KNAPSACK.knapSack\(\)](#).

Here is the call graph for this function:



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

- [C:/ce100-hw2-haluk-kurtulus/ce100-hw2-haluk-kurtulus/UnitTest1.cs](#)

## 5.9 ce100\_hw2\_haluk\_kurtulus.LCS Class Reference

### Static Public Member Functions

- static int [lcs](#) (char[] X, char[] Y, int m, int n, int[,] L)
- static int [max](#) (int a, int b)
- static void [Main](#) ()

### 5.9.1 Member Function Documentation

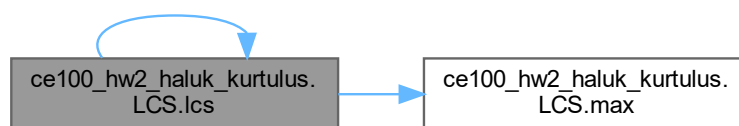
#### 5.9.1.1 lcs()

```
static int ce100_hw2_haluk_kurtulus.LCS.lcs (
    char[] X,
    char[] Y,
    int m,
    int n,
    int L[, ] ) [inline], [static]
```

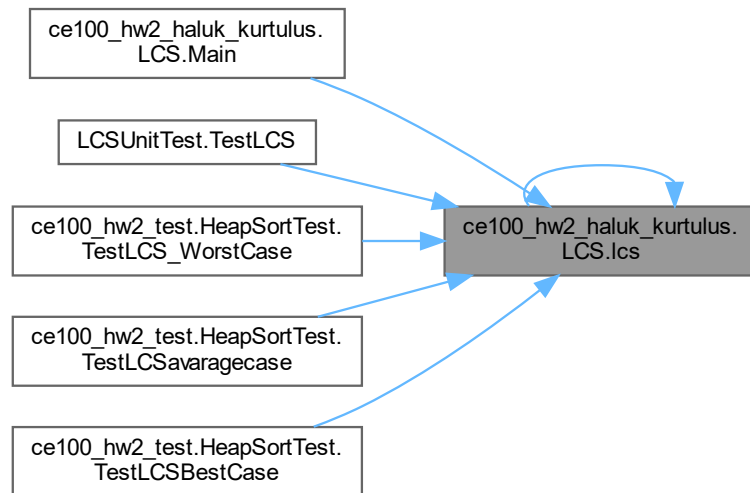
References [ce100\\_hw2\\_haluk\\_kurtulus.LCS.lcs\(\)](#), and [ce100\\_hw2\\_haluk\\_kurtulus.LCS.max\(\)](#).

Referenced by [ce100\\_hw2\\_haluk\\_kurtulus.LCS.lcs\(\)](#), [ce100\\_hw2\\_haluk\\_kurtulus.LCS.Main\(\)](#), [LCSUnitTest.TestLCS\(\)](#), [ce100\\_hw2\\_test.HeapSortTest.TestLCS\\_WorstCase\(\)](#), [ce100\\_hw2\\_test.HeapSortTest.TestLCSavaragecase\(\)](#), and [ce100\\_hw2\\_test.HeapSortTest.TestLCSBestCase\(\)](#).

Here is the call graph for this function:



Here is the caller graph for this function:



### 5.9.1.2 Main()

```
static void ce100_hw2_haluk_kurtulus.LCS.Main ( ) [inline], [static]
```

References [ce100\\_hw2\\_haluk\\_kurtulus.LCS.lcs\(\)](#).

Here is the call graph for this function:

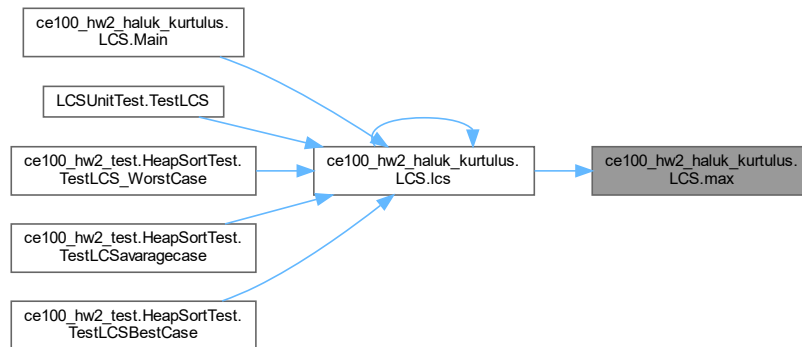


### 5.9.1.3 max()

```
static int ce100_hw2_haluk_kurtulus.LCS.max (
    int a,
    int b ) [inline], [static]
```

Referenced by [ce100\\_hw2\\_haluk\\_kurtulus.LCS.lcs\(\)](#).

Here is the caller graph for this function:



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

- C:/ce100-hw2-haluk-kurtulus/ce100-hw1-haluk-kurtulus/[Class1.cs](#)

## 5.10 LCSUnitTest Class Reference

### Public Member Functions

- void [TestLCS](#) ()

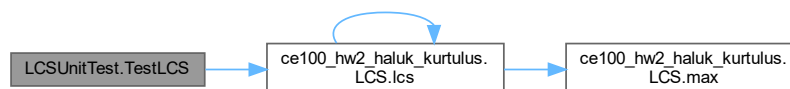
#### 5.10.1 Member Function Documentation

##### 5.10.1.1 TestLCS()

```
void LCSUnitTest.TestLCS ( ) [inline]
```

References [ce100\\_hw2\\_haluk\\_kurtulus.LCS.lcs\(\)](#).

Here is the call graph for this function:



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

- C:/ce100-hw2-haluk-kurtulus/ce100-hw2-haluk-kurtulus/[UnitTest1.cs](#)

## 5.11 MatrixChainMultiplicationTests Class Reference

### Public Member Functions

- void [TestMatrixChainMultiplication](#) ()

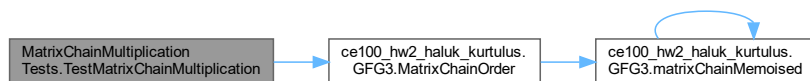
#### 5.11.1 Member Function Documentation

##### 5.11.1.1 TestMatrixChainMultiplication()

```
void MatrixChainMultiplicationTests.TestMatrixChainMultiplication ( ) [inline]
```

References [ce100\\_hw2\\_haluk\\_kurtulus.GFG3.MatrixChainOrder\(\)](#).

Here is the call graph for this function:



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

- C:/ce100-hw2-haluk-kurtulus/ce100-hw2-haluk-kurtulus/[UnitTest1.cs](#)

## 5.12 MatrixChainOrderTests Class Reference

### Public Member Functions

- void [MatrixChainOrder\\_Test](#) ()

#### 5.12.1 Member Function Documentation



### 5.12.1.1 MatrixChainOrder\_Test()

```
void MatrixChainOrderTests.MatrixChainOrder_Test ( ) [inline]
```

References [ce100\\_hw2\\_haluk\\_kurtulus.GFG.MatrixChainOrder\(\)](#).

Here is the call graph for this function:



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

- [C:/ce100-hw2-haluk-kurtulus/ce100-hw2-haluk-kurtulus/UnitTest1.cs](#)



## Chapter 6

# File Documentation

### 6.1 C:/ce100-hw2-haluk-kurtulus/ce100-hw1-haluk-kurtulus/Class1.cs File Reference

#### Data Structures

- class [ce100\\_hw2\\_haluk\\_kurtulus.HeapSort](#)
- class [ce100\\_hw2\\_haluk\\_kurtulus.GFG](#)
- class [ce100\\_hw2\\_haluk\\_kurtulus.GFG2](#)
- class [ce100\\_hw2\\_haluk\\_kurtulus.GFG3](#)
- class [ce100\\_hw2\\_haluk\\_kurtulus.LCS](#)
- class [ce100\\_hw2\\_haluk\\_kurtulus.KNAPSACK](#)

#### Namespaces

- namespace [ce100\\_hw2\\_haluk\\_kurtulus](#)

- 6.2 **C:/ce100-hw2-haluk-kurtulus/ce100-hw1-haluk-kurtulus/obj/↵  
Debug/net6.0/.NETCoreApp,Version=v6.0.AssemblyAttributes.cs File  
Reference**
  
- 6.3 **C:/ce100-hw2-haluk-kurtulus/ce100-hw2-test/obj/↵  
Debug/net6.0/.NETCoreApp,Version=v6.0.AssemblyAttributes.cs File  
Reference**
  
- 6.4 **C:/ce100-hw2-haluk-kurtulus/ce100-hw1-haluk-kurtulus/obj/↵  
Debug/net6.0/ce100-hw1-haluk-kurtulus.AssemblyInfo.cs File  
Reference**
  
- 6.5 **C:/ce100-hw2-haluk-kurtulus/ce100-hw1-haluk-kurtulus/obj/↵  
Debug/net6.0/ce100-hw1-haluk-kurtulus.GlobalUsings.g.cs File  
Reference**
  
- 6.6 **C:/ce100-hw2-haluk-kurtulus/ce100-hw2-haluk-kurtulus/obj/↵  
Debug/.NETFramework,Version=v4.8.AssemblyAttributes.cs File  
Reference**
  
- 6.7 **C:/ce100-hw2-haluk-kurtulus/ce100-hw2-haluk-kurtulus/Properties/↵  
AssemblyInfo.cs File Reference**
  
- 6.8 **C:/ce100-hw2-haluk-kurtulus/ce100-hw2-haluk-kurtulus/UnitTest1.cs  
File Reference**

## Data Structures

- class [ce100\\_hw2\\_haluk\\_kurtulus\\_test.HeapSortTests](#)
- class [MatrixChainOrderTests](#)
- class [MatrixChainMultiplicationTests](#)
- class [LCSUnitTest](#)
- class [KNAPSACKTests](#)

## Namespaces

- namespace [ce100\\_hw2\\_haluk\\_kurtulus\\_test](#)

## 6.9 C:/ce100-hw2-haluk-kurtulus/ce100-hw2-test/UnitTest1.cs File Reference

### Data Structures

- class [ce100\\_hw2\\_test.HeapSortTest](#)

### Namespaces

- namespace [ce100\\_hw2\\_test](#)

### 6.10 C:/ce100-hw2-haluk-kurtulus/ce100-hw2-test/obj/↵ Debug/net6.0/ce100-hw2-test.AssemblyInfo.cs File Reference

### 6.11 C:/ce100-hw2-haluk-kurtulus/ce100-hw2-test/obj/↵ Debug/net6.0/ce100-hw2-test.GlobalUsings.g.cs File Reference

### 6.12 C:/ce100-hw2-haluk-kurtulus/ce100-hw2-test/Usings.cs File Reference



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