# **Solucion**

*Package in package 'Model'*

Solucion

Version 1.0 Phase 1.0 Proposed

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## **Controller**

*Package in package 'Solucion'*

Controller

Version 1.0 Phase 1.0 Proposed

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| **LINKS TO OTHER PACKAGES** | |
| --- | --- |
| PackageImport from 'Controller' Package to 'View' Package | Direction: Source -> Destination |

|  |  |
| --- | --- |
| PackageImport from 'Controller' Package to 'Model.Logic' Package | Direction: Source -> Destination |

|  |  |
| --- | --- |
| Dependency from 'Main' Package to 'Controller' Package | Direction: Bi-Directional |

### **Controller diagram**

*Class diagram in package 'Controller'*

Controller

Version 1.0

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Controller

### **Controller**

*Class in package 'Controller'*

Controller

Version 1.0 Phase 1.0 Proposed

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| **OPERATIONS** |
| --- |
| Controller () : Public  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

|  |
| --- |
| run () : void Public  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

## **DisenoSolucion**

*Package in package 'Solucion'*

DisenoSolucion

Version 1.0 Phase 1.0 Proposed

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### **DisenoSolucion diagram**

*Package diagram in package 'DisenoSolucion'*

DisenoSolucion

Version 1.0

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DisenoSolucion

### **Controller**

*Package in package 'Solucion'*

Controller

Version 1.0 Phase 1.0 Proposed

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| **CONNECTORS** |
| --- |
| **Dependency** Bi-Directional  From: Main : Package, Public  To: Controller : Package, Public |

### **Main**

*Package in package 'Solucion'*

Main

Version 1.0 Phase 1.0 Proposed

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| **CONNECTORS** |
| --- |
| **Dependency** Bi-Directional  From: Main : Package, Public  To: Controller : Package, Public |

### **Model.Logic**

*Package in package 'Solucion'*

Model.Logic

Version 1.0 Phase 1.0 Proposed

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### **View**

*Package in package 'Solucion'*

View

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### **Model.dataStructures**

*Package in package 'Solucion'*

Model.dataStructures

Version 1.0 Phase 1.0 Proposed

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## **Main**

*Package in package 'Solucion'*

Main

Version 1.0 Phase 1.0 Proposed

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| **LINKS TO OTHER PACKAGES** | |
| --- | --- |
| Dependency from 'Main' Package to 'Controller' Package | Direction: Bi-Directional |

### **Main diagram**

*Class diagram in package 'Main'*

Main

Version 1.0

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Main

### **MVC**

*Class in package 'Main'*

MVC

Version 1.0 Phase 1.0 Proposed

striv created on 24/11/2019. Last modified 24/11/2019

| **OPERATIONS** |
| --- |
| main (args : String[] ) : void Public  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

## **Model.Logic**

*Package in package 'Solucion'*

Model.Logic

Version 1.0 Phase 1.0 Proposed

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| **LINKS TO OTHER PACKAGES** | |
| --- | --- |
| PackageImport from 'Model.Logic' Package to 'Model.dataStructures' Package | Direction: Source -> Destination |

|  |  |
| --- | --- |
| PackageImport from 'Controller' Package to 'Model.Logic' Package | Direction: Source -> Destination |

|  |  |
| --- | --- |
| PackageImport from 'View' Package to 'Model.Logic' Package | Direction: Source -> Destination |

### **Model.Logic diagram**

*Class diagram in package 'Model.Logic'*

Model.Logic

Version 1.0

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Model.Logic

### **HTML**

*Class in package 'Model.Logic'*

HTML

Version 1.0 Phase 1.0 Proposed

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| **ATTRIBUTES** |
| --- |
| cantKeys : int Private  [ Is static True. Containment is Not Specified. ] |

|  |
| --- |
| capcidad : int Private  [ Is static True. Containment is Not Specified. ] |

|  |
| --- |
| data : Vertex[] Private  [ Is static True. Containment is Not Specified. ] |

|  |
| --- |
| keys : Integer[] Private  [ Is static True. Containment is Not Specified. ] |

| **ASSOCIATIONS** | |
| --- | --- |
| Association (direction: Source -> Destination) | |
| Source: Public (Class) HTML | Target: Public (Class) MVCModelo |

|  |  |
| --- | --- |
| Association (direction: Source -> Destination) | |
| Source: Public (Class) Vertex | Target: Public (Class) HTML |

| **OPERATIONS** |
| --- |
| delete (key : K ) : V Public  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

|  |
| --- |
| get (key : K ) : V Public  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

|  |
| --- |
| getcapcidad () : int Public  Properties:  attribute\_name = capcidad  [ Stereotype is «property get». Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

|  |
| --- |
| getdata () : Vertex[] Public  Properties:  attribute\_name = data  [ Stereotype is «property get». Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

|  |
| --- |
| getkeys () : Integer[] Public  Properties:  attribute\_name = keys  [ Stereotype is «property get». Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

|  |
| --- |
| hash (key : K ) : int Public  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

|  |
| --- |
| HTML (m : int ) : void Public  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

|  |
| --- |
| put (key : K , value : Informacion ) : void Public  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

|  |
| --- |
| verificarCapacidadCarga () : boolean Public  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

### **MVCModelo**

*Class in package 'Model.Logic'*

MVCModelo

Version 1.0 Phase 1.0 Proposed

striv created on 24/11/2019. Last modified 24/11/2019

| **ATTRIBUTES** |
| --- |
| grafo : Graph Private  [ Is static True. Containment is Not Specified. ] |

|  |
| --- |
| ids : Queue<Integer> Private  [ Is static True. Containment is Not Specified. ] |

|  |
| --- |
| ‌infos : Informacion Private  [ Is static True. Containment is Not Specified. ] |

|  |
| --- |
| values : Queue<String> Private  [ Is static True. Containment is Not Specified. ] |

| **ASSOCIATIONS** | |
| --- | --- |
| Association (direction: Source -> Destination) | |
| Source: Public (Class) Viaje | Target: Public (Class) MVCModelo |

|  |  |
| --- | --- |
| Association (direction: Source -> Destination) | |
| Source: Public (Class) HTML | Target: Public (Class) MVCModelo |

| **OPERATIONS** |
| --- |
| cantidadComponentesConectados () : void Public  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

|  |
| --- |
| cargarTxt () : void Public  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

|  |
| --- |
| crearJson () : void Public  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

|  |
| --- |
| graficaGoogleMaps () : void Public  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

|  |
| --- |
| leerJson () : void Public  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

### **Vertex**

*Class in package 'Model.Logic'*

Vertex

Version 1.0 Phase 1.0 Proposed

striv created on 24/11/2019. Last modified 24/11/2019

| **ASSOCIATIONS** | |
| --- | --- |
| Association (direction: Source -> Destination) | |
| Source: Public (Class) Vertex | Target: Public (Class) HTML |

### **Viaje**

*Class in package 'Model.Logic'*

Viaje

Version 1.0 Phase 1.0 Proposed

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| **ATTRIBUTES** |
| --- |
| dstid : int Private  [ Is static True. Containment is Not Specified. ] |

|  |
| --- |
| info : int Private  [ Is static True. Containment is Not Specified. ] |

|  |
| --- |
| mean\_travel\_time : int Private  [ Is static True. Containment is Not Specified. ] |

|  |
| --- |
| sourceid : int Private  [ Is static True. Containment is Not Specified. ] |

|  |
| --- |
| standard\_deviation\_travel\_time : int Private  [ Is static True. Containment is Not Specified. ] |

|  |
| --- |
| trimestre : int Private  [ Is static True. Containment is Not Specified. ] |

| **ASSOCIATIONS** | |
| --- | --- |
| Association (direction: Source -> Destination) | |
| Source: Public (Class) Viaje | Target: Public (Class) MVCModelo |

| **OPERATIONS** |
| --- |
| getdstid () : int Public  Properties:  attribute\_name = dstid  [ Stereotype is «property get». Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

|  |
| --- |
| getinfo () : int Public  Properties:  attribute\_name = info  [ Stereotype is «property get». Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

|  |
| --- |
| getmean\_travel\_time () : int Public  Properties:  attribute\_name = mean\_travel\_time  [ Stereotype is «property get». Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

|  |
| --- |
| getsourceid () : int Public  Properties:  attribute\_name = sourceid  [ Stereotype is «property get». Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

|  |
| --- |
| getstandard\_deviation\_travel\_time () : int Public  Properties:  attribute\_name = standard\_deviation\_travel\_time  [ Stereotype is «property get». Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

|  |
| --- |
| gettrimestre () : int Public  Properties:  attribute\_name = trimestre  [ Stereotype is «property get». Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

|  |
| --- |
| setdstid (newVal : int ) : void Public  Properties:  attribute\_name = dstid  [ Stereotype is «property set». Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

|  |
| --- |
| setinfo (newVal : int ) : void Public  Properties:  attribute\_name = info  [ Stereotype is «property set». Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

|  |
| --- |
| setmean\_travel\_time (newVal : int ) : void Public  Properties:  attribute\_name = mean\_travel\_time  [ Stereotype is «property set». Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

|  |
| --- |
| setsourceid (newVal : int ) : void Public  Properties:  attribute\_name = sourceid  [ Stereotype is «property set». Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

|  |
| --- |
| setstandard\_deviation\_travel\_time (newVal : int ) : void Public  Properties:  attribute\_name = standard\_deviation\_travel\_time  [ Stereotype is «property set». Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

|  |
| --- |
| settrimestre (newVal : int ) : void Public  Properties:  attribute\_name = trimestre  [ Stereotype is «property set». Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

|  |
| --- |
| Viaje (\_trimestre : int , \_sourceid : String , \_dstid : String , \_info : String , \_mean\_travel\_time : String , \_standard\_deviation\_travel\_time : String ) : void Public  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

## **View**

*Package in package 'Solucion'*

View

Version 1.0 Phase 1.0 Proposed

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| **LINKS TO OTHER PACKAGES** | |
| --- | --- |
| PackageImport from 'View' Package to 'Model.Logic' Package | Direction: Source -> Destination |

|  |  |
| --- | --- |
| PackageImport from 'Controller' Package to 'View' Package | Direction: Source -> Destination |

### **View diagram**

*Class diagram in package 'View'*

View

Version 1.0

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View

### **MVCView**

*Class in package 'View'*

MVCView

Version 1.0 Phase 1.0 Proposed

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| **OPERATIONS** |
| --- |
| MVCView () : Public  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

|  |
| --- |
| prinModelo (modelo : MVCModelo ) : void Public  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

|  |
| --- |
| printMenu () : void Public  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

|  |
| --- |
| printMessage () : void Public  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

## **Model.dataStructures**

*Package in package 'Solucion'*

Model.dataStructures

Version 1.0 Phase 1.0 Proposed

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| **LINKS TO OTHER PACKAGES** | |
| --- | --- |
| PackageImport from 'Model.Logic' Package to 'Model.dataStructures' Package | Direction: Source -> Destination |

### **Model.dataStructures diagram**

*Class diagram in package 'Model.dataStructures'*

Model.dataStructures

Version 1.0

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Model.dataStructures

### **Bag**

*Class in package 'Model.dataStructures'*

Bag

Version 1.0 Phase 1.0 Proposed

striv created on 24/11/2019. Last modified 24/11/2019

| **ATTRIBUTES** |
| --- |
| First : Node<Item Private  [ Is static True. Containment is Not Specified. ] |

|  |
| --- |
| n : int Private  [ Is static True. Containment is Not Specified. ] |

| **ASSOCIATIONS** | |
| --- | --- |
| Association (direction: Source -> Destination) | |
| Source: Public (Class) Bag | Target: Public (Class) EdgeWeightedGraph |

|  |  |
| --- | --- |
| Association (direction: Source -> Destination) | |
| Source: Public (Class) Bag | Target: Public (Class) Graph |

|  |  |
| --- | --- |
| Association (direction: Source -> Destination) | |
| Source: Public (Class) Node | Target: Public (Class) Bag |

| **OPERATIONS** |
| --- |
| add (item : Item ) : void Public  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

|  |
| --- |
| Bag () : Public  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

|  |
| --- |
| isEmpty () : boolean Public  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

|  |
| --- |
| size () : int Public  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

### **CC**

*Class in package 'Model.dataStructures'*

CC

Version 1.0 Phase 1.0 Proposed

striv created on 24/11/2019. Last modified 24/11/2019

| **ATTRIBUTES** |
| --- |
| count : int Private  [ Is static True. Containment is Not Specified. ] |

|  |
| --- |
| id : int[] Private  [ Is static True. Containment is Not Specified. ] |

|  |
| --- |
| marked : boolean[] Private  [ Is static True. Containment is Not Specified. ] |

|  |
| --- |
| size : int[] Private  [ Is static True. Containment is Not Specified. ] |

| **ASSOCIATIONS** | |
| --- | --- |
| Association (direction: Source -> Destination) | |
| Source: Public (Class) CC | Target: Public (Class) Graph |

|  |  |
| --- | --- |
| Association (direction: Source -> Destination) | |
| Source: Public (Class) CC | Target: Public (Class) EdgeWeightedGraph |

| **OPERATIONS** |
| --- |
| CC (G : Graph ) : Public  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

|  |
| --- |
| CC (G : EdgeWeightedGraph ) : Public  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

|  |
| --- |
| connected (v : int , w : int ) : boolean Public  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

|  |
| --- |
| count () : int Public  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

|  |
| --- |
| dfs (Graph : G , V : int ) : void Public  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

|  |
| --- |
| id (V : int ) : int Public  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

|  |
| --- |
| size (v : int ) : int Public  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

### **Edge**

*Class in package 'Model.dataStructures'*

Edge

Version 1.0 Phase 1.0 Proposed

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| **ATTRIBUTES** |
| --- |
| v : int Private  [ Is static True. Containment is Not Specified. ] |

|  |
| --- |
| w : int Private  [ Is static True. Containment is Not Specified. ] |

|  |
| --- |
| weight1 : int Private  [ Is static True. Containment is Not Specified. ] |

|  |
| --- |
| weight2 : int Private  [ Is static True. Containment is Not Specified. ] |

|  |
| --- |
| weight3 : int Private  [ Is static True. Containment is Not Specified. ] |

| **ASSOCIATIONS** | |
| --- | --- |
| Association (direction: Source -> Destination) | |
| Source: Public (Class) Edge | Target: Public (Class) Graph |

|  |  |
| --- | --- |
| Association (direction: Source -> Destination) | |
| Source: Public (Class) Edge | Target: Public (Class) EdgeWeightedGraph |

|  |  |
| --- | --- |
| Association (direction: Source -> Destination) | |
| Source: Public (Class) Haversine | Target: Public (Class) Edge |

| **OPERATIONS** |
| --- |
| compareTo (that : Edge ) : int Public  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

|  |
| --- |
| Edge (v : int , w : int , weight : double ) : Public  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

|  |
| --- |
| other (vertex : int ) : int Public  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

|  |
| --- |
| setweight2 (newVal : int ) : void Public  Properties:  attribute\_name = weight2  [ Stereotype is «property set». Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

|  |
| --- |
| setweight3 (newVal : int ) : void Public  Properties:  attribute\_name = weight3  [ Stereotype is «property set». Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

|  |
| --- |
| toString () : String Public  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

|  |
| --- |
| weightHaversinDistance () : double Public  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

|  |
| --- |
| weightTiempoPromedio () : double Public  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

|  |
| --- |
| weightVelocidadDelArco () : double Public  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

### **EdgeWeightedGraph**

*Class in package 'Model.dataStructures'*

EdgeWeightedGraph

Version 1.0 Phase 1.0 Proposed

striv created on 24/11/2019. Last modified 24/11/2019

| **ATTRIBUTES** |
| --- |
| adj : Bag<Edge>[] Private  [ Is static True. Containment is Not Specified. ] |

|  |
| --- |
| E : int Private  [ Is static True. Containment is Not Specified. ] |

|  |
| --- |
| V : int Private  [ Is static True. Containment is Not Specified. ] |

| **ASSOCIATIONS** | |
| --- | --- |
| Association (direction: Source -> Destination) | |
| Source: Public (Class) Bag | Target: Public (Class) EdgeWeightedGraph |

|  |  |
| --- | --- |
| Association (direction: Source -> Destination) | |
| Source: Public (Class) Edge | Target: Public (Class) EdgeWeightedGraph |

|  |  |
| --- | --- |
| Association (direction: Source -> Destination) | |
| Source: Public (Class) CC | Target: Public (Class) EdgeWeightedGraph |

| **OPERATIONS** |
| --- |
| E () : int Public  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

|  |
| --- |
| EdgeWeightedGraph (v : int ) : Public  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

|  |
| --- |
| EdgeWeightedGraph (v : int , e : int ) : void Public  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

### **Graph**

*Class in package 'Model.dataStructures'*

Graph

Version 1.0 Phase 1.0 Proposed

striv created on 24/11/2019. Last modified 24/11/2019

| **ATTRIBUTES** |
| --- |
| adj : Bag<Integer>[] Private  [ Is static True. Containment is Not Specified. ] |

|  |
| --- |
| E : int Private  [ Is static True. Containment is Not Specified. ] |

|  |
| --- |
| V : int Private  [ Is static True. Containment is Not Specified. ] |

| **ASSOCIATIONS** | |
| --- | --- |
| Association (direction: Source -> Destination) | |
| Source: Public (Class) Edge | Target: Public (Class) Graph |

|  |  |
| --- | --- |
| Association (direction: Source -> Destination) | |
| Source: Public (Class) CC | Target: Public (Class) Graph |

|  |  |
| --- | --- |
| Association (direction: Source -> Destination) | |
| Source: Public (Class) Bag | Target: Public (Class) Graph |

| **OPERATIONS** |
| --- |
| E () : int Public  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

|  |
| --- |
| Graph (v : int ) : void Public  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

|  |
| --- |
| Graph (G : Graph ) : void Public  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

|  |
| --- |
| V () : int Public  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

### **Haversine**

*Class in package 'Model.dataStructures'*

Haversine

Version 1.0 Phase 1.0 Proposed

striv created on 24/11/2019. Last modified 24/11/2019

| **ASSOCIATIONS** | |
| --- | --- |
| Association (direction: Source -> Destination) | |
| Source: Public (Class) Haversine | Target: Public (Class) Edge |

| **OPERATIONS** |
| --- |
| distance (a : double , b : double , c : double , d : double ) : double Public  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

|  |
| --- |
| haversin () : double Public  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

### **Node**

*Class in package 'Model.dataStructures'*

Node

Version 1.0 Phase 1.0 Proposed

striv created on 24/11/2019. Last modified 24/11/2019

| **ATTRIBUTES** |
| --- |
| Item : Item Private  [ Is static True. Containment is Not Specified. ] |

|  |
| --- |
| next : Node<Item> Private  [ Is static True. Containment is Not Specified. ] |

| **ASSOCIATIONS** | |
| --- | --- |
| Association (direction: Source -> Destination) | |
| Source: Public (Class) Node | Target: Public (Class) Bag |

### **Queue**

*Class in package 'Model.dataStructures'*

Queue

Version 1.0 Phase 1.0 Proposed

striv created on 24/11/2019. Last modified 24/11/2019

### **Stack**

*Class in package 'Model.dataStructures'*

Stack

Version 1.0 Phase 1.0 Proposed

striv created on 24/11/2019. Last modified 24/11/2019