

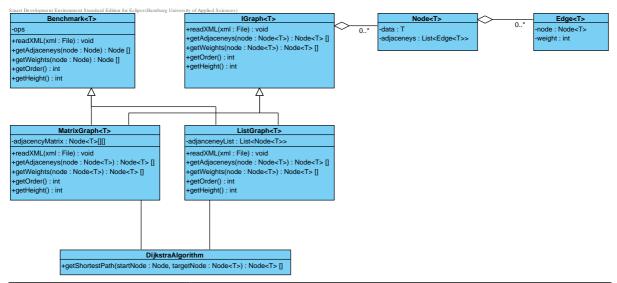
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Class Diagram

a08.Graph



Name	Value
Author	Administrator
Create Date Time	26.05.2011 18:55:58
Last Modified	26.05.2011 20:29:03
Name	a08.Graph

Summary

Name	Documentation
Benchmark <t></t>	
■ IGraph <t></t>	
Node <t></t>	
Edge <t></t>	
MatrixGraph <t></t>	
ListGraph <t></t>	
DijkstraAlgorithm	

Details

■ Benchmark<T>

Name	Value
Active	false
Business Model	false
Visibility	public
Leaf	false
Root	false
Author	Administrator
Create Date Time	26.05.2011 19:21:46
Last Modified	26.05.2011 20:01:53

Attributes

private ops			
Author	Administrator		
Create Date Time	26.05.2011 19:23:35		
Last Modified	26.05.2011 19:29:51		
Getter	false	Setter	false
Has Setter	false		
Has Getter	false		
Derived	false		
Multiplicity	Unspecified		
Aggregation	None		

- Por an or re			
public readXML (xml : File) : void			
Parameters	xml		
	Multiplicity	Unspecified	
	Author	Administrator	
	Create Date Time	26.05.2011 19:27:43	
	Last Modified	26.05.2011 19:29:51	
	Туре	File	
	Direction	inout	
Static	false		
Leaf	false		
Author	Administrator		
Create Date Time	26.05.2011 19:27:39		
Last Modified	26.05.2011 19:29:51		
Ordered	false		
Unique	true		
Query	false		

public getAdjaceneys (node : Node) : Node			
Parameters	node		
	Multiplicity	Unspecified	
	Author	Administrator	
	Create Date Time	26.05.2011 19:27:50	
	Last Modified	26.05.2011 19:29:51	
	Туре	Node	
	Direction	inout	
Static	false		
Leaf	false		
Author	Administrator		
Create Date Time	26.05.2011 19:27:47		
Last Modified	26.05.2011 19:29:51		
Type Modifier	[]		
Ordered	false		
Unique	true		
Query	false		

public getWeights (node : Node) : Node			
Parameters	node		
	Multiplicity	Unspecified	
	Author	Administrator	
	Create Date Time	26.05.2011 19:28:11	
	Last Modified	26.05.2011 19:29:51	
	Туре	Node	
	Direction	inout	
Static	false		
Leaf	false		
Author	Administrator		
Create Date Time	26.05.2011 19:28:07		
Last Modified	26.05.2011 19:29:51		
Type Modifier	0		
Ordered	false		
Unique	true		
Query	false		

public getOrder () : int	
Static	false
Leaf	false
Author	Administrator
Create Date Time	26.05.2011 19:28:24
Last Modified	26.05.2011 19:29:51
Ordered	false
Unique	true
Query	false

public getHeight (): int	
Static	false
Leaf	false
Author	Administrator
Create Date Time	26.05.2011 19:28:32
Last Modified	26.05.2011 19:29:51
Ordered	false
Unique	true
Query	false

Unnamed Generalization		
То	MatrixGraph <t></t>	
Author	Administrator	
Create Date Time	26.05.2011 19:46:23	
Last Modified	26.05.2011 19:47:09	
Substitutable	false	
Visibility	Unspecified	

Unnamed Generalization	
То	■ ListGraph <t></t>
Author	Administrator
Create Date Time	26.05.2011 19:46:27
Last Modified	26.05.2011 19:47:09
Substitutable	false
Visibility	Unspecified



Name	Value
Active	false
Business Model	false
Visibility	public
Leaf	false
Root	false
Author	Administrator
Create Date Time	26.05.2011 18:56:55
Last Modified	26.05.2011 19:47:09

<u> </u>				
public readXML (xml : File) : void				
Parameters	xml	xml		
	Multiplicity	Unspecified		
	Author	Administrator		
	Create Date Time	26.05.2011 18:57:49		
	Last Modified	26.05.2011 19:29:51		
	Туре	File		
	Direction	inout		
Static	false	false		
Leaf	false	false		
Author	Administrator	Administrator		
Create Date Time	26.05.2011 18:57:16	26.05.2011 18:57:16		
Last Modified	26.05.2011 19:29:51	26.05.2011 19:29:51		
Ordered	false	false		
Unique	true	true		
Query	false			

public getAdjaceneys (node : Node) : Node				
Parameters	node			
	Multiplicity	Unspecified		
	Author	Administrator		
	Create Date Time	26.05.2011 18:58:25		
	Last Modified	26.05.2011 19:47:09		
	Template Type Bind Info	N/A		
	Туре	Node		
	Direction inout			
Static	false			
Leaf	false	false		
Author	Administrator			
Create Date Time	26.05.2011 18:57:49			
Last Modified	26.05.2011 19:47:09			
Template Type Bind Info	N/A			
Type Modifier	0			
Ordered	false			
Unique	true			
Query	false			

public getWeights (node : Node) : Node			
Parameters	node		
	Multiplicity	Unspecified	
	Author	Administrator	
	Create Date Time	26.05.2011 18:58:46	
	Last Modified	26.05.2011 19:47:09	
	Template Type Bind Info	N/A	
	Туре	Node	
	Direction	inout	
Static	false		
Leaf	false		
Author	Administrator		
Create Date Time	26.05.2011 18:58:25		
Last Modified	26.05.2011 19:47:09		
Template Type Bind Info	N/A		
Type Modifier	0		
Ordered	false		
Unique	true		
Query	false		

public getOrder (): int		
Static	false	
Leaf	false	
Author	Administrator	
Create Date Time	26.05.2011 18:58:46	
Last Modified	26.05.2011 19:29:51	
Ordered	false	
Unique	true	
Query	false	

public getHeight () : int		
Static	false	
Leaf	false	
Author	Administrator	
Create Date Time	26.05.2011 18:58:54	
Last Modified	26.05.2011 19:29:51	
Ordered	false	
Unique	true	
Query	false	

Relationships				
Unnamed Association				
То	Name	Value		
	End Model Element	Node <t></t>		
	Author	Administrator		
	Create Date Time	26.05.2011 19:01:39		
	Last Modified	26.05.2011 19:05:16		
	Provide Property Getter Method	false		
	Provide Property Setter Method	false		
	Multiplicity	0*		
	Visibility	Unspecified		
	Aggregation Kind	None		
	Navigable	true		
	Derived	false		
Abstract	false			
Leaf	false			
Visibility	Unspecified	Unspecified		
Author	Administrator	Administrator		
Create Date Time	26.05.2011 19:01:39			
Last Modified	26.05.2011 19:05:16			
Derived	false			

Unnamed Generalization	
То	ListGraph <t></t>
Author	Administrator
Create Date Time	26.05.2011 19:03:17
Last Modified	26.05.2011 19:05:16
Substitutable	false
Visibility	Unspecified

Unnamed Generalization		
То	MatrixGraph <t></t>	
Author	Administrator	
Create Date Time	26.05.2011 19:03:11	
Last Modified	26.05.2011 19:47:09	
Substitutable	false	
Visibility	Unspecified	



Name	Value
Active	false
Business Model	false
Visibility	public
Leaf	false
Root	false
Author	Administrator
Create Date Time	26.05.2011 18:56:52
Last Modified	26.05.2011 19:51:52

Attributes

private data : T				
Author	Administrator			
Create Date Time	26.05.2011 18	:59:31		
Last Modified	26.05.2011 19	26.05.2011 19:01:49		
Туре	Т	Т		
Getter	false	Setter	false	
Has Setter	false	false		
Has Getter	false	false		
Derived	false			
Multiplicity	Unspecified			
Aggregation	None			

private adjaceneys : List				
Author	Administrator	Administrator		
Create Date Time	26.05.2011 18:59:38			
Last Modified	26.05.2011 19:51:52			
Template Type Bind Info	N/A	N/A		
Туре	List			
Getter	false	Setter	false	
Has Setter	false			
Has Getter	false			
Derived	false			
Multiplicity	Unspecified			
Aggregation	None			

Relationships				
Unnamed Association				
То	Name	Value		
	End Model Element	Edge <t></t>		
	Author	Administrator		
	Create Date Time	26.05.2011 19:02:26		
	Last Modified	26.05.2011 19:05:16		
	Provide Property Getter Method	false		
	Provide Property Setter Method	false		
	Multiplicity	0*		
	Visibility	Unspecified		
	Aggregation Kind	None		
	Navigable	true		
	Derived	false		
Abstract	false			
Leaf	false			
Visibility	Unspecified	Unspecified		
Author	Administrator	Administrator		
Create Date Time	26.05.2011 19:02:26	26.05.2011 19:02:26		
Last Modified	26.05.2011 19:05:16	26.05.2011 19:05:16		
Derived	false	false		

Unnamed Association				
From	Name	Value		
	End Model Element	☐ IGraph <t></t>		
	Author	Administrator		
	Create Date Time	26.05.2011 19:01:39		
	Last Modified	26.05.2011 19:05:16		
	Provide Property Getter Method	false		
	Provide Property Setter Method	false		
	Multiplicity	Unspecified		
	Visibility	Unspecified		
	Aggregation Kind	Aggregation		
	Navigable	true		
	Derived	false		
Abstract	false			
Leaf	false	false		
Visibility	Unspecified	Unspecified		
Author	Administrator	Administrator		
Create Date Time	26.05.2011 19:01:39	26.05.2011 19:01:39		
Last Modified	26.05.2011 19:05:16	26.05.2011 19:05:16		
Derived	false	false		

Edge<T>

Name	Value
Active	false
Business Model	false
Visibility	public
Leaf	false
Root	false
Author	Administrator
Create Date Time	26.05.2011 19:00:19
Last Modified	26.05.2011 19:51:52

Attributes

private node : Node				
Author	Administrator			
Create Date Time	26.05.2011 19:00:4	6		
Last Modified	26.05.2011 19:51:52	2		
Template Type Bind Info	N/A	N/A		
Туре	Node			
Getter	false	false Setter false		
Has Setter	false			
Has Getter	false			
Derived	false			
Multiplicity	Unspecified			
Aggregation	None			

private weight : int				
Author	Administrator	Administrator		
Create Date Time	26.05.2011 19:0	00:51		
Last Modified	26.05.2011 19:0	26.05.2011 19:01:49		
Туре	int	o int		
Getter	false	Setter	false	
Has Setter	false	false		
Has Getter	false	false		
Derived	false	false		
Multiplicity	Unspecified	Unspecified		
Aggregation	None			

Unnamed Association				
From	Name	Value		
	End Model Element	Node <t></t>		
	Author	Administrator		
	Create Date Time	26.05.2011 19:02:26		
	Last Modified	26.05.2011 19:05:16		
	Provide Property Getter Method	false		
	Provide Property Setter Method	false		
	Multiplicity	Unspecified		
	Visibility	Unspecified		
	Aggregation Kind	Aggregation		
	Navigable	true		
	Derived	false		
Abstract	false			
Leaf	false	false		
Visibility	Unspecified	Unspecified		
Author	Administrator	Administrator		
Create Date Time	26.05.2011 19:02:26	26.05.2011 19:02:26		
Last Modified	26.05.2011 19:05:16	26.05.2011 19:05:16		
Derived	false	false		

■ MatrixGraph<T>

Name	Value
Active	false
Business Model	false
Visibility	public
Leaf	false
Root	false
Author	Administrator
Create Date Time	26.05.2011 19:02:54
Last Modified	26.05.2011 19:47:09

Attributes

private adjacencyMatrix : Node				
Author	Administrator		,	
Create Date Time	26.05.2011 19	:17:51		
Last Modified	26.05.2011 19	:47:09		
Template Type Bind Info	N/A			
Type Modifier	00	00		
Туре	Node			
Getter	false	Setter	false	
Has Setter	false			
Has Getter	false			
Derived	false	false		
Multiplicity	Unspecified			
Aggregation	None			

public readXML (xml : File) : void			
Parameters	xml		
	Multiplicity	Unspecified	
	Author	Administrator	
	Create Date Time	26.05.2011 18:57:49	
	Last Modified	26.05.2011 19:47:09	
	Туре	File	
	Direction	inout	
Static	false		
Leaf	false		
Author	Administrator		
Create Date Time	26.05.2011 18:57:16		
Last Modified	26.05.2011 19:47:09		
Ordered	false		
Unique	true		
Query	false		

public getAdjaceneys (node : Node) : Node				
Parameters	node			
	Multiplicity	Unspecified		
	Author	Administrator		
	Create Date Time	26.05.2011 18:58:25		
	Last Modified	26.05.2011 19:47:09		
	Template Type Bind Info	N/A		
	Туре	Node		
	Direction	inout		
Static	false			
Leaf	false			
Author	Administrator			
Create Date Time	26.05.2011 18:57:49	26.05.2011 18:57:49		
Last Modified	26.05.2011 19:47:09	26.05.2011 19:47:09		
Template Type Bind Info	N/A			
Type Modifier				
Ordered	false			
Unique	true			
Query	false			

public getWeights (node : Node) : Node			
Parameters	node		
	Multiplicity	Unspecified	
	Author	Administrator	
	Create Date Time	26.05.2011 18:58:46	
	Last Modified	26.05.2011 19:47:09	
	Template Type Bind Info	N/A	
	Туре	Node	
	Direction	inout	
Static	false		
Leaf	false		
Author	Administrator		
Create Date Time	26.05.2011 18:58:25		
Last Modified	26.05.2011 19:47:09		
Template Type Bind Info	N/A		
Type Modifier			
Ordered	false		
Unique	true		
Query	false		

public getOrder () : int		
Static	false	
Leaf	false	
Author	Administrator	
Create Date Time	26.05.2011 18:58:46	
Last Modified	26.05.2011 19:47:09	
Ordered	false	
Unique	true	
Query	false	

public getHeight () : int	
Static	false
Leaf	false
Author	Administrator
Create Date Time	26.05.2011 18:58:54
Last Modified	26.05.2011 19:47:09
Ordered	false
Unique	true
Query	false

Relationships		
Unnamed Association		
То	Name	Value
	End Model Element	DijkstraAlgorithm
	Author	Administrator
	Create Date Time	26.05.2011 19:29:39
	Last Modified	26.05.2011 19:47:09
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Author	Administrator	
Create Date Time	26.05.2011 19:29:39	
Last Modified	26.05.2011 19:47:09	
Derived	false	

Unnamed Generalization	
From	☐ IGraph <t></t>
Author	Administrator
Create Date Time	26.05.2011 19:03:11
Last Modified	26.05.2011 19:47:09
Substitutable	false
Visibility	Unspecified

Unnamed Generalization	
From	Benchmark <t></t>
Author	Administrator
Create Date Time	26.05.2011 19:46:23
Last Modified	26.05.2011 19:47:09
Substitutable	false
Visibility	Unspecified

ListGraph<T>

Name	Value
Active	false
Business Model	false
Visibility	public
Leaf	false
Root	false
Author	Administrator
Create Date Time	26.05.2011 19:03:17
Last Modified	26.05.2011 19:47:09

Attributes

private adjanceneyList : List			
Author	Administrator		
Create Date Time	26.05.2011 19:18:52		
Last Modified	26.05.2011 19:47:09		
Template Type Bind Info	N/A		
Туре	List		
Getter	false	Setter	false
Has Setter	false		
Has Getter	false		
Derived	false		
Multiplicity	Unspecified		
Aggregation	None		

public readXML (xml : File) : void			
Parameters	xml	xml	
	Multiplicity	Unspecified	
	Author	Administrator	
	Create Date Time	26.05.2011 18:57:49	
	Last Modified	26.05.2011 19:47:09	
	Туре	File	
	Direction	inout	
Static	false		
Leaf	false		
Author	Administrator		
Create Date Time	26.05.2011 18:57:16		
Last Modified	26.05.2011 19:47:09		
Ordered	false		
Unique	true		
Query	false		

public getAdjaceneys (node : Node) : Node		
Parameters	node	
	Multiplicity	Unspecified
	Author	Administrator
	Create Date Time	26.05.2011 18:58:25
	Last Modified	26.05.2011 19:47:09
	Template Type Bind Info	N/A
	Туре	Node
	Direction	inout
Static	false	
Leaf	false	
Author	Administrator	
Create Date Time	26.05.2011 18:57:49	
Last Modified	26.05.2011 19:47:09	
Template Type Bind Info	N/A	
Type Modifier	D .	
Ordered	false	
Unique	true	
Query	false	

public getWeights (node : Node) : Node			
Parameters	node	node	
	Multiplicity	Unspecified	
	Author	Administrator	
	Create Date Time	26.05.2011 18:58:46	
	Last Modified	26.05.2011 19:47:09	
	Template Type Bind Info	N/A	
	Туре	Node	
	Direction	inout	
Static	false		
Leaf	false		
Author	Administrator		
Create Date Time	26.05.2011 18:58:25		
Last Modified	26.05.2011 19:47:09		
Template Type Bind Info	N/A		
Type Modifier	0		
Ordered	false		
Unique	true		
Query	false		

public getOrder (): int	
Static	false
Leaf	false
Author	Administrator
Create Date Time	26.05.2011 18:58:46
Last Modified	26.05.2011 19:47:09
Ordered	false
Unique	true
Query	false

public getHeight (): int	
Static	false
Leaf	false
Author	Administrator
Create Date Time	26.05.2011 18:58:54
Last Modified	26.05.2011 19:47:09
Ordered	false
Unique	true
Query	false

Unnamed Generalization	
From	☐ IGraph <t></t>
Author	Administrator
Create Date Time	26.05.2011 19:03:17
Last Modified	26.05.2011 19:05:16
Substitutable	false
Visibility	Unspecified

Unnamed Association		
From	Name	Value
	End Model Element	DijkstraAlgorithm
	Author	Administrator
	Create Date Time	26.05.2011 19:29:08
	Last Modified	26.05.2011 19:29:51
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Author	Administrator	
Create Date Time	26.05.2011 19:29:08	
Last Modified	26.05.2011 19:29:51	
Derived	false	

Unnamed Generalization	
From	Benchmark <t></t>
Author	Administrator
Create Date Time	26.05.2011 19:46:27
Last Modified	26.05.2011 19:47:09
Substitutable	false
Visibility	Unspecified

DijkstraAlgorithm

Name	Value
Active	false
Business Model	false
Visibility	public
Leaf	false
Root	false
Author	Administrator
Create Date Time	26.05.2011 19:20:04
Last Modified	26.05.2011 20:01:53

public getShortestPath (sta	nrtNode : Node, targetNode : No	ode) : Node		
Parameters	startNode			
	Multiplicity	Unspecified		
	Author	Administrator		
	Create Date Time	26.05.2011 19:21:28		
	Last Modified	26.05.2011 20:01:53		
	Туре	Node		
	Direction	inout		
	targetNode	targetNode		
	Multiplicity	Unspecified		
	Author	Administrator		
	Create Date Time	26.05.2011 19:21:28		
	Last Modified	26.05.2011 20:01:53		
	Template Type Bind Info	N/A		
	Туре	Node		
	Direction	inout		
Static	false			
Leaf	false			
Author	Administrator			
Create Date Time	26.05.2011 19:20:47			
Last Modified	26.05.2011 20:01:53			
Template Type Bind Info	N/A			
Type Modifier	0			
Ordered	false			
Unique	true			
Query	false			

Unnamed Association			
То	Name	Value	
	End Model Element	ListGraph <t></t>	
	Author	Administrator	
	Create Date Time	26.05.2011 19:29:08	
	Last Modified	26.05.2011 19:29:51	
	Provide Property Getter Method	false	
	Provide Property Setter Method	false	
	Multiplicity	Unspecified	
	Visibility	Unspecified	
	Aggregation Kind	None	
	Navigable	true	
	Derived	false	
Abstract	false	false	
Leaf	false	false	
Visibility	Unspecified		
Author	Administrator		
Create Date Time	26.05.2011 19:29:08		
Last Modified	26.05.2011 19:29:51	26.05.2011 19:29:51	
Derived	false		

Unnamed Association		
From	Name	Value
	End Model Element	MatrixGraph <t></t>
	Author	Administrator
	Create Date Time	26.05.2011 19:29:39
	Last Modified	26.05.2011 19:47:09
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Author	Administrator	
Create Date Time	26.05.2011 19:29:39	
Last Modified	26.05.2011 19:47:09	
Derived	false	