DOCUMENTATION

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Package: Topologies

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DESCRIPTION

package Topologies is

Uwe R. Zimmer, Australia, September 2011

TYPES

Assignment Project letter and Help

type Topology_Kind is interface;

References:

```
httpsologies ads:7:9 (declaration) complete (reference) configuration_structures.adb:7:82 (reference) routers_configuration_structures.ads:27:82 (reference)
```

Addovalete hat represented the

topologies.adb:13:47 (reference) topologies.adb:21:44 (reference) topologies.adb:442:41 (reference) topologies.adb:466:41 (reference) topologies.adb:492:65 (reference) topologies.adb:493:65 (reference) topologies.adb:494:65 (reference) topologies.adb:495:65 (reference) topologies.adb:496:65 (reference) topologies.adb:497:65 (reference) topologies.adb:498:65 (reference) topologies.adb:499:65 (reference) topologies.adb:500:65 (reference) topologies.adb:501:65 (reference) topologies.adb:502:65 (reference) topologies.ads:9:48 (reference) topologies.ads:10:48 (reference) topologies.ads:13:48 (reference) topologies.ads:14:48 (reference) topologies.ads:16:71 (reference)

topologies.ads:17:71 (reference) topologies.ads:18:71 (reference) topologies.ads:19:71 (reference) topologies.ads:20:71 (reference)

```
topologies.ads:21:71 (reference)
topologies.ads:22:71 (reference)
topologies.ads:23:71 (reference)
topologies.ads:24:71 (reference)
topologies.ads:25:71 (reference)
topologies.ads:26:71 (reference)
```

SUBPROGRAMS & ENTRIES

Nodes_in_Topology (abstract)

```
    Goto spec in source_

function Nodes_in_Topology
                                       : Topology_Kind)
              Configurati
                                       return Positive is
 (
              on
                                       abstract:
                       References:
                       topologies.ads:9:13 (declaration)
                        generic routers configuration.ads:15:49 (dispatching call)
                       test_routers.adb:331:60 (dispatching call)
                       topologies.adb:444:50 (dispatching call)
                       topologies.adb:468:50 (dispatching call)
                       Called by:
                       Max Degree defined at topologies.ads:14:13
                        Mip_Degree Tofined at topologies ads:13:18
                             Routers define lattest Touters and Help
                       Nodes Connected (abstract)
                                          Goto spec in source_
function Nodes_Confectops://powcoder.com
                  Configu
                                          Topology
 (
                  ration
                   Add WeChat powcoder
                  Node
                                           : Positive)
                  Α,
                                          return
                  Node
                                           Boolean is
                  В
                                           abstract:
                       References:
                       topologies.ads:10:13 (declaration)
                       generic routers.adb:41:61 (dispatching call)
                       test_routers.adb:123:25 (dispatching call)
                       test_routers.adb:125:28 (dispatching call)
                       topologies.adb:454:19 (dispatching call)
                       topologies.adb:478:19 (dispatching call)
                       Called by:
                       Max_Degree defined at topologies.ads:14:13
                       Min Degree defined at topologies.ads:13:13
                        Test Routers. Print Connections defined at test routers. adb:102:20
                        Test Routers. Print Connections defined at test routers. adb:102:20
                       Min Degree
                                         Goto spec in source_
```

Topology_Ki

Goto body in source_ function Min_Degree (Configurati

```
nd'Class)
              on
                                      return
                                      Natural:
                       References:
                       topologies.ads:13:13 (declaration)
                       test_routers.adb:332:13 (call)
                       test_routers.adb:333:61 (call)
                       test routers.adb:335:60 (call)
                       topologies.adb:442:13 (body)
                       topologies.adb:462:8 (label)
                       Called by:
                       Test Routers defined at test routers.adb:17:11
                       Test Routers defined at test routers.adb:17:11
                       Test Routers defined at test routers.adb:17:11
                       Calls:
                       Nodes Connected defined at topologies.ads:10:13
                       Nodes_in_Topology defined at topologies.ads:9:13
                       Max Degree

    Goto spec in source_

    Goto body in source_

function Max_Degree
              ssignment Project Exam Help
              on
                                      return
                                      Natural;
                   https://powcoder.com
                       topologies.ads:14:13 (declaration)
                       AND PRATE OF WCODER
                       test routers.adb.336.60 Icall)
                       topologies.adb:466:13 (body)
                       topologies.adb:486:8 (label)
                       Called by:
                       Test_Routers defined at test_routers.adb:17:11
                       Test Routers defined at test routers.adb:17:11
                       Calls:
                       Nodes_Connected defined at topologies.ads:10:13
                       Nodes_in_Topology defined at topologies.ads:9:13
                       Line

    Goto spec in source_

    Goto body in source_

function Line
                              : Positive)
                              return
 (
      Size
                              Topology Ki
                              nd'Class:
                       References:
                       topologies.ads:16:13 (declaration)
                       routers_configuration_structures.adb:13:47 (call)
                       topologies.adb:492:13 (body)
                       Called by:
                       Routers_Configuration_Structures.Get_Topology defined at
```

```
routers configuration structures.ads:27:13
                        Ring

    Goto spec in source_

    Goto body in source

function Ring
                               : Positive)
                               return
      Size
                               Topology Ki
                               nd'Class:
                        References:
                        topologies.ads:17:13 (declaration)
                        routers_configuration_structures.adb:14:47 (call)
                        topologies.adb:493:13 (body)
                        Called by:
                        Routers_Configuration_Structures.Get_Topology defined at
                        routers_configuration_structures.ads:27:13
                        Star

    Goto spec in source_

    Goto body in source_

function Star
                               : Positive)
      Size Assignment of Project Exam Help
                               nd'Class:
                   htelerencespowcoder com
                        routers_configuration_structures.adb:15:47 (call)
                        topologies adb:494:13 (body)
                    Added WeChat powcoder
Routers_Configuration_Structures.Get_Topology defined at
                        routers_configuration_structures.ads:27:13
                        Fully Connected

    Goto spec in source_

    Goto body in source

function Fully_Connected
                               : Positive)
                               return
 (
      Size
                               Topology_Ki
                               nd'Class:
                        References:
                        topologies.ads:19:13 (declaration)
                        routers configuration structures.adb:16:47 (call)
                        topologies.adb:495:13 (body)
                        Called by:
                        Routers_Configuration_Structures.Get_Topology defined at
                        routers configuration structures.ads:27:13
                        Trees

    Goto spec in source_

    Goto body in source_

function Trees
                                          : Positive)
                 Degree,
```

```
Depths
                                         Topology Ki
                                         nd'Class;
                       References:
                       topologies.ads:20:13 (declaration)
                       routers_configuration_structures.adb:17:47 (call)
                       topologies.adb:496:13 (body)
                       Called by:
                       Routers_Configuration_Structures.Get_Topology defined at
                       routers_configuration_structures.ads:27:13
                       Mesh

    Goto spec in source_

    Goto body in source_

function Mesh
                                         : Positive)
                 Dimensi
                                         return
 (
                                         Topology Ki
                 on,
                                         nd'Class:
                       References:
                       topologies.ads:21:13 (declaration)
                       routers_configuration_structures.adb:18:47_(call)
          Assignment Project Exam Help
                       Called by:
                       Routers_Configuration_Structures.Get_Topology defined at
                        routers configuration structures ads:27:13

    Goto spec in source_

                   Add WeChat powcoder
function Torus
                                         : Positive)
                 Dimensi
                                         return
 (
                                         Topology Ki
                 on,
                                         nd'Class:
                       References:
                       topologies.ads:22:13 (declaration)
                       routers_configuration_structures.adb:19:47 (call)
                       topologies.adb:498:13 (body)
                       Called by:
                       Routers Configuration Structures. Get Topology defined at
                       routers_configuration_structures.ads:27:13
                       Hypercube

    Goto spec in source_

    Goto body in source_

function Hypercube
                                    : Positive)
                                    return
 (
           Dimension
                                    Topology_Ki
                                    nd'Class;
                       References:
                       topologies.ads:23:13 (declaration)
```

routers_configuration_structures.adb:20:47 (call)

return

```
routers configuration structures.ads:27:13
                       Cube Connected Cycles

    Goto spec in source_

    Goto body in source_

function Cube_Connected_Cycles
                                   : Positive)
                                   return
 (
           Dimension
                                   Topology Ki
                                   nd'Class:
                       References:
                       topologies.ads:24:13 (declaration)
                       routers configuration structures.adb:21:47 (call)
                       topologies.adb:500:13 (body)
                       Called by:
                       Routers_Configuration_Structures.Get_Topology defined at
                       routers configuration structures.ads:27:13
                       Butterfly

    Goto spec in source_

function By Assignment Project Exam Help
                                   : Positive)
                                   return
           Dimension
 (
                   https://pdwcoder.com
                       References:
                      ddows ecznatepowcoder
                       routers_configuration_structures.adb:22:47 (call)
                       topologies.adb:501:13 (body)
                       Called by:
                       Routers Configuration Structures. Get Topology defined at
                       routers_configuration_structures.ads:27:13
                       Wrap Around Butterfly

    Goto spec in source

    Goto body in source_

function Wrap_Around_Butterfly
                                   : Positive)
                                   return
 (
           Dimension
                                   Topology Ki
                                   nd'Class;
                       References:
                       topologies.ads:26:13 (declaration)
                       routers_configuration_structures.adb:23:47 (call)
                       topologies.adb:502:13 (body)
                       Called by:
                       Routers_Configuration_Structures.Get_Topology defined at
                       routers configuration structures.ads:27:13
```

topologies.adb:499:13 (body)

Routers Configuration Structures. Get Topology defined at

Called by:

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