My Project

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3.1 Class List

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Chapter 4

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Chapter 5

Namespace Documentation

5.1 AutoTest Namespace Reference

Typedefs

- typedef QList< QObject ∗ > TestList

Functions

- TestList & testList ()
- bool findObject (QObject ∗object)
- void addTest (QObject ∗object)
- int run (int argc, char ∗argv[])

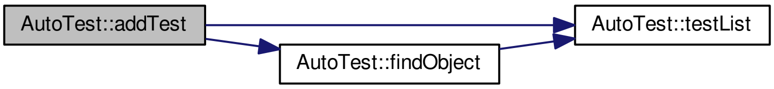
5.1.1 Typedef Documentation

5.1.1.1 typedef QList<QObject∗> AutoTest::TestList

5.1.2 Function Documentation

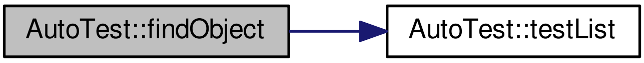
5.1.2.1 void AutoTest::addTest (QObject ∗ *object*) [inline]

Here is the call graph for this function:



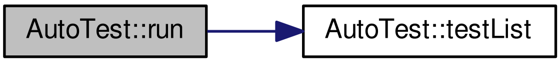
5.1.2.2 bool AutoTest::findObject (QObject ∗ *object*) [inline]

Here is the call graph for this function:



5.1.2.3 int AutoTest::run (int *argc,* char ∗ *argv[]*) [inline]

Here is the call graph for this function:



5.1.2.4 TestList& AutoTest::testList ( ) [inline]

Chapter 6

Class Documentation

6.1 Coords Class Reference

Trieda Coords.

```
#include <coords.h>
```

Public Member Functions

- Coords ()
- Coords (double, double, double, double, double, double)
- void setLatitudeD (double)
- void setLatitudeM (double)
- void setLatitudeS (double)
- void setLongitudeD (double)
- void setLongitudeM (double)
- void setLongitudeS (double)
- void setDecLatitude (double decLatitude)
- void setDecLongitude (double decLongitude)
- double getLatitudeD (void)
- double getLatitudeM (void)
- double getLatitudeS (void)
- double getLongitudeD (void)
- double getLongitudeM (void)
- double getLongitudeS (void)
- double getDecLatitude ()
- double getDecLongitude ()
- void DegToDec (void)

6.1.1 Detailed Description

Trieda Coords.

Trieda Coords predstavuje suradnice radaroveho systemu a ich prevod do roznych typov.

6.1.2 Constructor & Destructor Documentation

6.1.2.1 Coords::Coords ( )

Impicitny konstruktor

6.1.2.2 Coords::Coords (double *latitudeD,* double *latitudeM,* double *latitudeS,* double *longitudeD,* double *longitudeM,* double *longitudeS*)

Konstruktor triedy Coords obsahujuci vstupne suradnice.

Konstruktor ma ako vstupne argumenty sestticu cisel predstavujucich stupne minuty a sekundy zemepisnej sirky a dlzky.

Parameters

arraySize	size of dynamically allocated array

Returns

nothing

< Informacia o stupni zemepisnej sirky

< Informacia o minute zemepisnej sirky

< Informacia o sekunde zemepisnej sirky

< Informacia o stupni zemepisnej dlzky

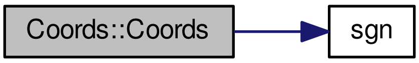
< Informacia o stupni zemepisnej dlzky

< Informacia o stupni zemepisnej dlzky

< Prevod zemepisnej sirky do dekadickych stupnov

< Prevod zemepisnej dlzky do dekadickych stupnov

Here is the call graph for this function:



6.1.3 Member Function Documentation

6.1.3.1 void Coords::DegToDec (void)

6.1.3.2 double Coords::getDecLatitude ( )

6.1.3.3 double Coords::getDecLongitude ( )

6.1.3.4 double Coords::getLatitudeD (void)

6.1.3.5 double Coords::getLatitudeM (void)

6.1.3.6 double Coords::getLatitudeS (void)

6.1.3.7 double Coords::getLongitudeD (void)

6.1.3.8 double Coords::getLongitudeM (void)

6.1.3.9 double Coords::getLongitudeS (void)

6.1.3.10 void Coords::setDecLatitude (double *decLatitude*)

6.1.3.11 void Coords::setDecLongitude (double *decLongitude*)

6.1.3.12 void Coords::setLatitudeD (double *latitudeD*)

6.1.3.13 void Coords::setLatitudeM (double *latitudeM*)

6.1.3.14 void Coords::setLatitudeS (double *latitudeS*)

6.1.3.15 void Coords::setLongitudeD (double *longitudeD*)

6.1.3.16 void Coords::setLongitudeM (double *longitudeM*)

6.1.3.17 void Coords::setLongitudeS (double *longitudeS*)

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

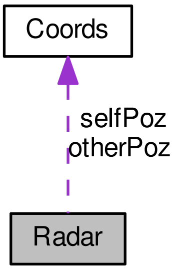
- coords.h
- coords.cpp

6.2 Radar Class Reference

Trieda Radar.

```
#include <radar.h>
```

Collaboration diagram for Radar:



Public Member Functions

- Radar (Coords, Coords)
- double getDistance (void)

Public Attributes

- const double sac =48.0

- double directDistance
- Coords selfPoz
- Coords otherPoz

6.2.1 Detailed Description

Trieda Radar.

Trieda predstavuje model radaru.

6.2.2 Constructor & Destructor Documentation

6.2.2.1 Radar::Radar (Coords *selfPoz,* Coords *otherPoz*)

Konstruktor triedy Radar obsahujuci vlastnu a vzdialenu suradnicu.

Konstruktor ma ako vstupne argumenty dva parametre typu Coords.

Parameters

arraySize	size of dynamically allocated array

Returns

nothing

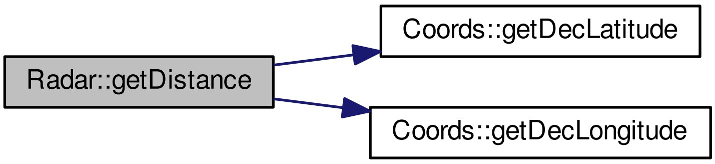
6.2.3 Member Function Documentation

6.2.3.1 double Radar::getDistance (void)

Funkcia getDistance triedy Radar pocitajuca vzdialenost.

Funkcia pocita vzdialenost pomocou kniznice GeographicLib vytvorenu pre geograficke vypocty.

Here is the call graph for this function:



6.2.4 Member Data Documentation

6.2.4.1 double Radar::directDistance

Vzdialenost od inej wgs suradnice

6.2.4.2 Coords Radar::otherPoz

Pozicia od ktorej sa pocita vzdialenost

6.2.4.3 const double Radar::sac =48.0

SAC identifikator

6.2.4.4 Coords Radar::selfPoz

Vlastna pozicia radaru

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

- radar.h
- radar.cpp

6.3 Test< T > Class Template Reference

```
#include <AutoTest.h>
```

Public Member Functions

- Test (const QString &name)

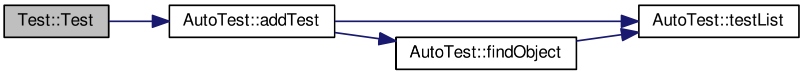
Public Attributes

- QSharedPointer< T > child

6.3.1 Constructor & Destructor Documentation

6.3.1.1 template<class T > Test< T >::Test (const QString & *name*) [inline]

Here is the call graph for this function:



6.3.2 Member Data Documentation

6.3.2.1 template<class T > QSharedPointer<T> Test< T >::child

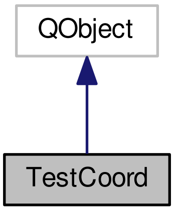
The documentation for this class was generated from the following file:

- AutoTest.h

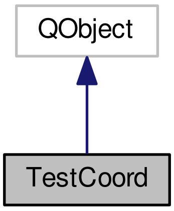
6.4 TestCoord Class Reference

```
#include <test_coord.h>
```

Inheritance diagram for TestCoord:



Collaboration diagram for TestCoord:



Public Member Functions

- TestCoord ()

6.4.1 Constructor & Destructor Documentation

6.4.1.1 TestCoord::TestCoord ( )

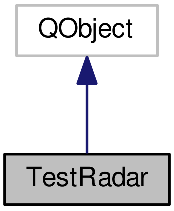
The documentation for this class was generated from the following files:

- test_coord.h
- test_coord.cpp

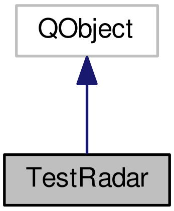
6.5 TestRadar Class Reference

```
#include <test_radar.h>
```

Inheritance diagram for TestRadar:



Collaboration diagram for TestRadar:



Public Member Functions

- TestRadar ()

6.5.1 Constructor & Destructor Documentation

6.5.1.1 TestRadar::TestRadar ( )

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

- test_radar.h
- test_radar.cpp

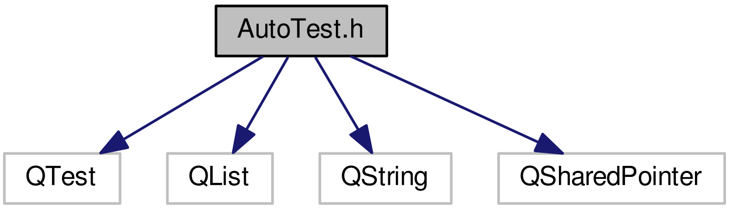
Chapter 7

File Documentation

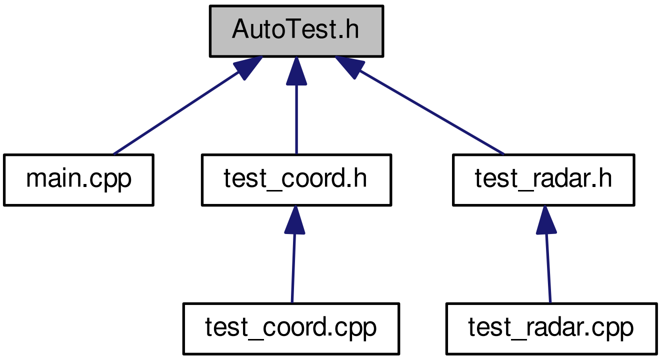
7.1 AutoTest.h File Reference

```
#include <QTest>
#include <QList>
#include <QString>
#include <QSharedPointer>
```

Include dependency graph for AutoTest.h:



This graph shows which files directly or indirectly include this file:



Classes

- class Test< T >

Namespaces

- AutoTest

Macros

- #define DECLARE_TEST(className) static Test<className> t(#className);
- #define TEST_MAIN

Typedefs

- typedef QList< QObject ∗ > AutoTest::TestList

Functions

- TestList & AutoTest::testList ()
- bool AutoTest::findObject (QObject ∗object)
- void AutoTest::addTest (QObject ∗object)
- int AutoTest::run (int argc, char ∗argv[])

7.1.1 Macro Definition Documentation

7.1.1.1 #define DECLARE_TEST(*className*) static Test<className> t(#className);

7.1.1.2 #define TEST_MAIN

Value:

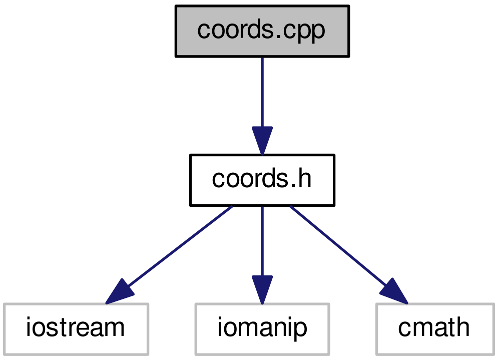
```
int main(int argc, char *argv[]) \
    { \
      return AutoTest::run(argc, argv); \
  }
```

7.2 coords.cpp File Reference

Tento subor obsahuje konstruktor a metody triedy Coords predstavujuce suradnice radaroveho systemu.

```
#include "coords.h"
```

Include dependency graph for coords.cpp:



Functions

- template<typename T >
  T sgn (T n)

7.2.1 Detailed Description

Tento subor obsahuje konstruktor a metody triedy Coords predstavujuce suradnice radaroveho systemu. Mozny obsahlejsi popis na vice radek.

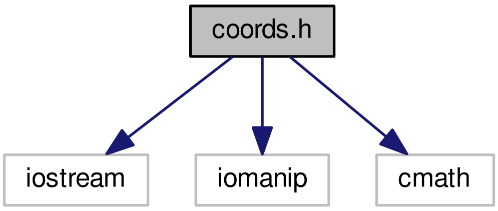
7.2.2 Function Documentation

7.2.2.1 template<typename T > T sgn (T *n*)

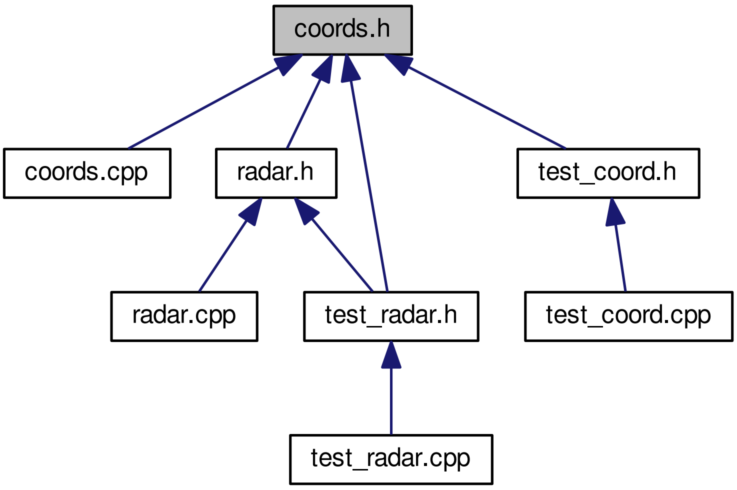
7.3 coords.h File Reference

```
#include <iostream>
#include <iomanip>
#include <cmath>
```

Include dependency graph for coords.h:



This graph shows which files directly or indirectly include this file:



Classes

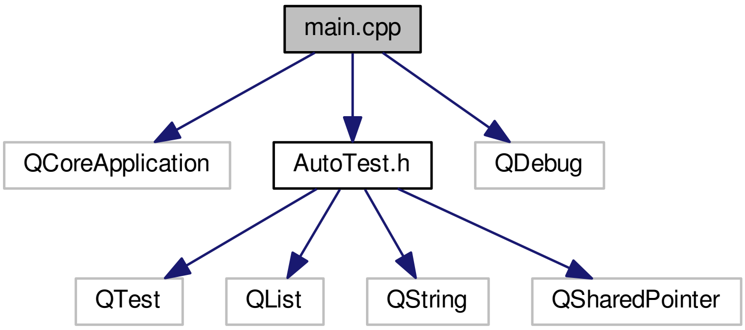
- class Coords

  Trieda Coords.

7.4 main.cpp File Reference

```
#include <QCoreApplication>
#include "AutoTest.h"
#include <QDebug>
```

Include dependency graph for main.cpp:



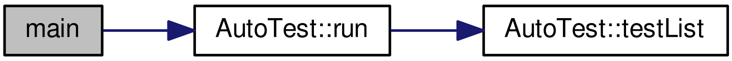
Functions

- int main (int argc, char ∗argv[])

7.4.1 Function Documentation

7.4.1.1 int main (int *argc,* char ∗ *argv[]*)

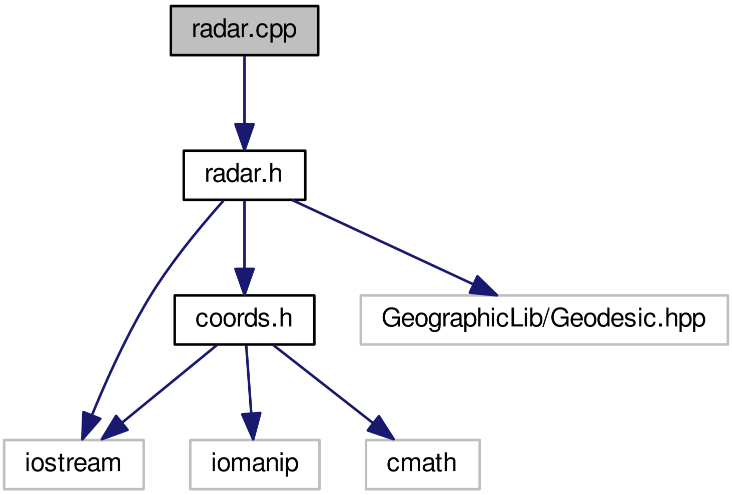
Here is the call graph for this function:



7.5 radar.cpp File Reference

```
#include "radar.h"
```

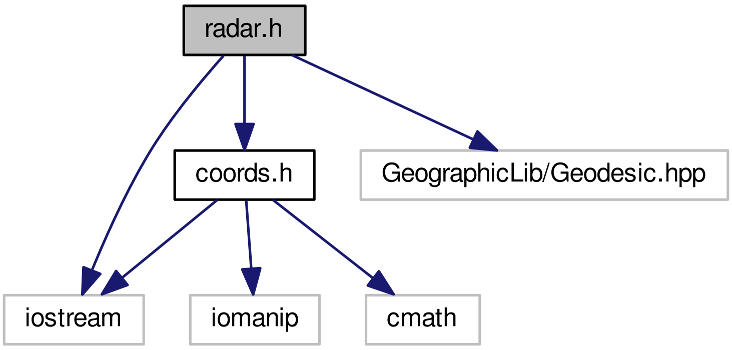
Include dependency graph for radar.cpp:



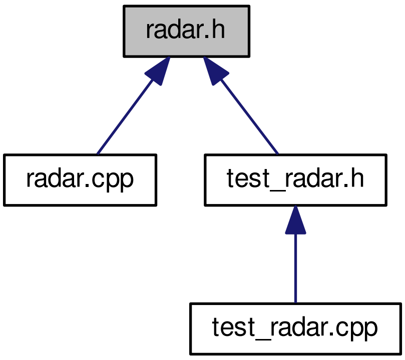
7.6 radar.h File Reference

```
#include "coords.h"
#include <iostream>
#include <GeographicLib/Geodesic.hpp>
```

Include dependency graph for radar.h:



This graph shows which files directly or indirectly include this file:



Classes

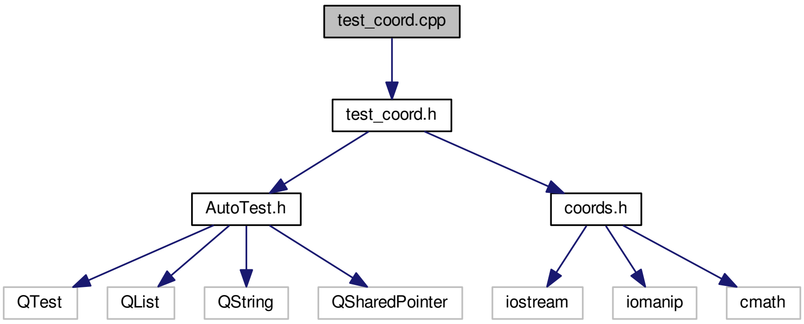
- class Radar

  Trieda Radar.

7.7 test_coord.cpp File Reference

`#include "test_coord.h"`

Include dependency graph for test_coord.cpp:



Functions

- double cutNumber (double number)

Variables

- double cutDecLat

- double cutDecLong
- Coords mssr_veljav (48, 15, 38.56, 17, 9, 47.83)
- Coords mssr_bucen (48, 18, 19.95, 19, 52, 14.61)
- Coords mie_mor (48, 3, 42.00, 17, 22, 35.00)
- Coords mich_p37 (48, 43, 24.98, 21, 57, 4.39)
- Coords po_mor5 (49, 1, 55.2701, 21, 18, 51.607)

7.7.1 Function Documentation

7.7.1.1 double cutNumber (double *number*)

7.7.2 Variable Documentation

7.7.2.1 double cutDecLat

7.7.2.2 double cutDecLong

7.7.2.3 Coords mich_p37(48, 43, 24.98, 21, 57, 4.39)

7.7.2.4 Coords mie_mor(48, 3, 42.00, 17, 22, 35.00)

7.7.2.5 Coords mssr_bucen(48, 18, 19.95, 19, 52, 14.61)

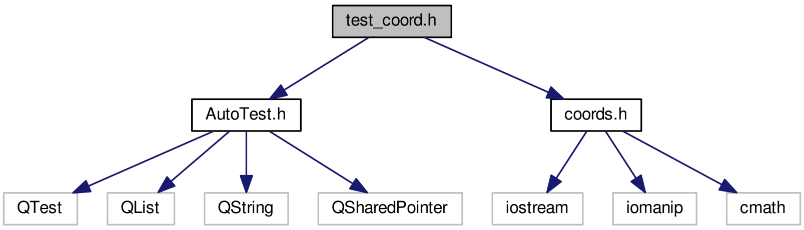
7.7.2.6 Coords mssr_veljav(48, 15, 38.56, 17, 9, 47.83)

7.7.2.7 Coords po_mor5(49, 1, 55.2701, 21, 18, 51.607)

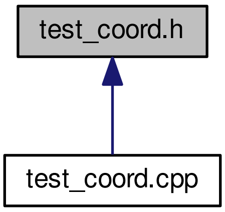
7.8 test_coord.h File Reference

```
#include "AutoTest.h"
#include "coords.h"
```

Include dependency graph for test_coord.h:



This graph shows which files directly or indirectly include this file:



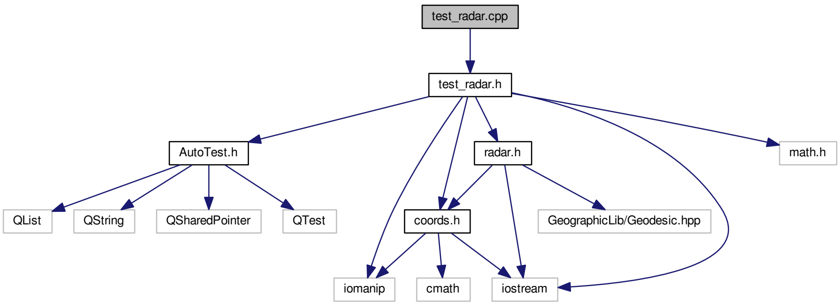
Classes

- class TestCoord

7.9 test_radar.cpp File Reference

```
#include "test_radar.h"
```

Include dependency graph for test_radar.cpp:



Variables

- Coords mssr__veljav (48, 15, 38.56, 17, 9, 47.83)
- Coords mssr__bucen (48, 18, 19.95, 19, 52, 14.61)
- Coords mie__mor (48, 3, 42.00, 17, 22, 35.00)
- Coords mich__p37 (48, 43, 24.98, 21, 57, 4.39)
- Coords po__mor5 (49, 1, 55.2701, 21, 18, 51.607)
- Radar r1 (mssr__veljav, mssr__bucen)

7.9.1 Variable Documentation

7.9.1.1 Coords mich__p37(48, 43, 24.98, 21, 57, 4.39)

7.9.1.2 Coords mie__mor(48, 3, 42.00, 17, 22, 35.00)

7.9.1.3 Coords mssr__bucen(48, 18, 19.95, 19, 52, 14.61)

7.9.1.4 Coords mssr__veljav(48, 15, 38.56, 17, 9, 47.83)

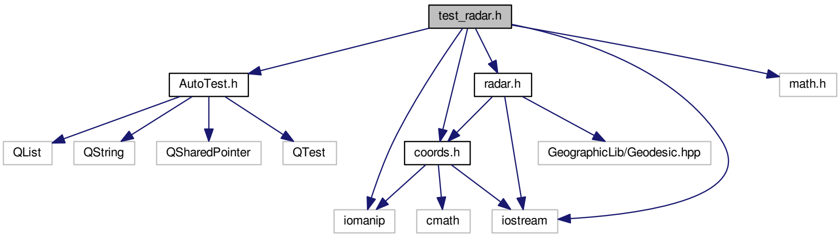
7.9.1.5 Coords po__mor5(49, 1, 55.2701, 21, 18, 51.607)

7.9.1.6 Radar r1(mssr__veljav, mssr__bucen)

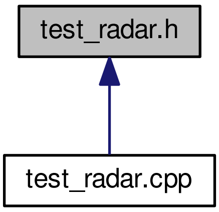
7.10 test_radar.h File Reference

```
#include "AutoTest.h"
#include "coords.h"
#include "radar.h"
#include <math.h>
#include <iomanip>
#include <iostream>
```

Include dependency graph for test_radar.h:



This graph shows which files directly or indirectly include this file:



Classes

- class TestRadar

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