

pointer:0x7fa74bb6c010  
SgSourceFile

root node

SgNode\* p\_parent : 0x2623080  
bool p\_isModified : 1  
bool p\_containsTransformation : 0  
\$CLASSNAME\* p\_freepointer : 0xfffffffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x7fa75762b080  
SgStringList p\_originalCommandLineArgumentList : [pdfGenerator, -c, test\_unit.ads]  
int p\_verbose : 0  
bool p\_output\_warnings : 0  
bool p\_C\_only : 0  
bool p\_Cxx\_only : 0  
bool p\_Fortran\_only : 0  
bool p\_CoArrayFortran\_only : 0  
int p\_upc\_threads : 0  
bool p\_Java\_only : 0  
bool p\_Jovial\_only : 0  
bool p\_X10\_only : 0  
bool p\_PHP\_only : 0  
bool p\_Python\_only : 0  
bool p\_Cuda\_only : 0  
bool p\_OpenCL\_only : 0  
bool p\_Csharp\_only : 0  
bool p\_Ada\_only : 1  
bool p\_Cobol\_only : 0  
bool p\_requires\_C\_preprocessor : 0  
bool p\_binary\_only : 0  
SgFile::outputFormatOption\_enum p\_inputFormat : 2  
SgFile::outputFormatOption\_enum p\_outputFormat : 2  
SgFile::outputFormatOption\_enum p\_backendCompileFormat : 2  
bool p\_fortran\_implicit\_none : 0  
bool p\_openmp : 0  
bool p\_openmp\_parse\_only : 1  
bool p\_openmp\_ast\_only : 0  
bool p\_openmp\_lowering : 0  
bool p\_openacc : 0  
bool p\_openacc\_parse\_only : 0  
bool p\_openacc\_ast\_only : 0  
bool p\_cray\_pointer\_support : 0  
bool p\_failsafe : 0  
bool p\_output\_parser\_actions : 0  
bool p\_exit\_after\_parser : 0  
bool p\_skip\_syntax\_check : 0  
bool p\_skip\_parser : 0  
bool p\_relax\_syntax\_check : 0  
bool p\_skip\_translation\_from\_edg\_ast\_to\_rose\_ast : 0  
bool p\_skip\_transformation : 0  
bool p\_skip\_unparse : 0  
bool p\_skipfinalCompileStep : 0  
bool p\_unparse\_includes : 0  
bool p\_unparse\_line\_directives : 0  
bool p\_unparse\_function\_calls\_using\_operator\_syntax : 0  
bool p\_unparse\_function\_calls\_using\_operator\_names : 0  
bool p\_unparse\_instruction\_addresses : 1  
bool p\_unparse\_raw\_memory\_contents : 1  
bool p\_unparse\_binary\_file\_format : 1  
SgFile::languageOption\_enum p\_outputLanguage : 12  
SgFile::languageOption\_enum p\_inputLanguage : 12  
std::string p\_sourceFileNameWithPath : /home/liao6/workspace/ada-to-cpp-FY21/rose-ast/ada/test\_unit.ads  
std::string p\_sourceFileNameWithoutPath : test\_unit.ads  
std::string p\_unparse\_output\_filename :  
std::string p\_objectFileNameWithPath :  
std::string p\_objectFileNameWithoutPath :  
bool p\_useBackendOnly : 0  
bool p\_compileOnly : 0

pointer:0x7fa7575a2128  
SgGlobal  
/home/liao6/workspace/ada-to-cpp-FY21/rose-ast/ada/test\_unit.ads 0:0  
IsTransformation:0  
IsOutputInCodeGeneration:0

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SgNode\* p\_parent : 0x7fa74bb6c010  
bool p\_isModified : 1  
bool p\_containsTransformation : 0  
\$CLASSNAME\* p\_freepointer : 0xfffffffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x7fa75762b0f0  
Sg\_File\_Info\* p\_endOfConstruct : 0x7fa75762b160  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0  
bool p\_containsTransformationToSurroundingWhitespace : 0  
SgLabelRefExp\* p\_numeric\_label : 0  
int p\_source\_sequence\_value : 0  
SgSymbolTable\* p\_symbol\_table : 0x7fa75754c170  
SgTypeTable\* p\_type\_table : 0x265dae8  
std::set<SgSymbol\*> p\_type\_elaboration\_list : []  
std::set<SgSymbol\*> p\_hidden\_type\_list : []  
std::set<SgSymbol\*> p\_hidden\_declaration\_list : []  
SgPragma\* p\_pragma : 0  
SgDeclarationStatementPtrList p\_declarations : [0x7fa74b5c8010]

pointer:0x7fa74b5c8010  
SgAdaPackageSpecDecl  
Test\_Unit.ads 1:1  
IsTransformation:0  
IsOutputInCodeGeneration:1  
Declaration mangled name: ada\$pkg\$Test\_Unit

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SgNode\* p\_parent : 0x7fa7575a2128  
bool p\_isModified : 1  
bool p\_containsTransformation : 0  
\$CLASSNAME\* p\_freepointer : 0xfffffffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x7fa75762b860  
Sg\_File\_Info\* p\_endOfConstruct : 0x7fa75762b8d0  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0  
bool p\_containsTransformationToSurroundingWhitespace : 0  
SgLabelRefExp\* p\_numeric\_label : 0  
int p\_source\_sequence\_value : 1  
unsigned int p\_decl\_attributes : 0  
std::string p\_linkage :  
SgDeclarationModifier p\_declarationModifier : <too long>: <too long>: SgDeclarationModifier(isUnknown() = false isDefault() = true isFrien  
bool p\_nameOnly : 0  
bool p\_forward : 0  
bool p\_externBrace : 0  
bool p\_skipElaborateType : 0  
SgDeclarationStatement\* p\_definingDeclaration : 0  
SgDeclarationStatement\* p\_firstNondefiningDeclaration : 0x7fa74b5c8010  
SgQualifiedNamePtrList p\_qualifiedNameList : []  
std::string p\_binding\_label :  
SgDeclarationScope\* p\_declarationScope : 0  
SgName p\_name : Test\_Unit  
SgAdaPackageSpec\* p\_definition : 0x7fa74badf130  
SgScopeStatement\* p\_scope : 0x7fa7575a2128

pointer:0x7fa74badf130  
SgAdaPackageSpec  
transformation 0:0  
IsTransformation:1  
IsOutputInCodeGeneration:1

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SgNode\* p\_parent : 0x7fa74b5c8010  
bool p\_isModified : 1  
bool p\_containsTransformation : 0  
\$CLASSNAME\* p\_freepointer : 0xfffffffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x7fa75762b5c0  
Sg\_File\_Info\* p\_endOfConstruct : 0x7fa75762b630  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0  
bool p\_containsTransformationToSurroundingWhitespace : 0  
SgLabelRefExp\* p\_numeric\_label : 0  
int p\_source\_sequence\_value : 2  
SgSymbolTable\* p\_symbol\_table : 0x7fa75754c4e0  
SgTypeTable\* p\_type\_table : 0x265db60  
std::set<SgSymbol\*> p\_type\_elaboration\_list : []  
std::set<SgSymbol\*> p\_hidden\_type\_list : []  
std::set<SgSymbol\*> p\_hidden\_declaration\_list : []  
SgPragma\* p\_pragma : 0  
SgAdaPackageBody\* p\_body : 0  
SgDeclarationStatementPtrList p\_declarations : [0x7fa74b7a6390]

pointer:0x7fa74b7a6390  
SgTypedefDeclaration  
transformation 0:0  
IsTransformation:1  
IsOutputInCodeGeneration:1  
Declaration mangled name: L0R

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SgNode\* p\_parent : 0x7fa74badf130  
bool p\_isModified : 1  
bool p\_containsTransformation : 0  
\$CLASSNAME\* p\_freepointer : 0xfffffffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x7fa75762c200  
Sg\_File\_Info\* p\_endOfConstruct : 0x7fa75762c270  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0  
bool p\_containsTransformationToSurroundingWhitespace : 0  
SgLabelRefExp\* p\_numeric\_label : 0  
int p\_source\_sequence\_value : 3  
unsigned int p\_decl\_attributes : 0  
std::string p\_linkage :  
SgDeclarationModifier p\_declarationModifier : <too long>: <too long>: SgDeclarationModifier(isUnknown() = false isDefault() = true isFrien  
bool p\_nameOnly : 0  
bool p\_forward : 0  
bool p\_externBrace : 0  
bool p\_skipElaborateType : 0  
SgDeclarationStatement\* p\_definingDeclaration : 0  
SgDeclarationStatement\* p\_firstNondefiningDeclaration : 0x7fa74b7a6390  
SgQualifiedNamePtrList p\_qualifiedNameList : []  
std::string p\_binding\_label :  
SgDeclarationScope\* p\_declarationScope : 0  
SgName p\_name : Range\_Type  
SgType\* p\_base\_type : 0x7fa74b41c010  
SgTypedefType\* p\_type : 0x7fa74b763120  
SgDeclarationStatement\* p\_declaration : 0  
SgSymbol\* p\_parent\_scope : 0x2732ef0  
bool p\_typedefBaseTypeContainsDefiningDeclaration : 0  
SgScopeStatement\* p\_scope : 0x7fa74badf130  
bool p\_requiresGlobalNameQualificationOnType : 0  
int p\_name\_qualification\_length\_for\_base\_type : 0  
bool p\_type\_elaboration\_required\_for\_base\_type : 0  
bool p\_global\_qualification\_required\_for\_base\_type : 0  
bool p\_isAutonomousDeclaration : 1  
bool p\_isAssociatedWithDeclarationList : 0  
bool p\_isFirstDeclarationOfDeclarationList : 1  
int p\_name\_qualification\_length : 0  
bool p\_type\_elaboration\_required : 0  
bool p\_global\_qualification\_required : 0

