

pointer:0x7ff250eba010  
SgSourceFile

root node

SgNode\* p\_parent : 0x26ab180  
bool p\_isModified : 0  
bool p\_containsTransformation : 0  
\$CLASSNAME\* p\_freepointer : 0xfffffffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x7ff25c100068  
SgStringList p\_originalCommandLineArgumentList : [./pdfGenerator, inputCode\_wholeGraphAST.C]  
int p\_verbose : 0  
bool p\_output\_warnings : 0  
bool p\_C\_only : 0  
bool p\_UPC\_only : 0  
bool p\_UPCxx\_only : 0  
int p\_upc\_threads : 0  
bool p\_C89\_only : 0  
bool p\_C89\_gnu\_only : 0  
bool p\_C99\_only : 0  
bool p\_C99\_gnu\_only : 0  
bool p\_Cxx\_only : 1  
bool p\_C11\_only : 0  
bool p\_C11\_gnu\_only : 0  
bool p\_Cxx0x\_only : 0  
bool p\_Cxx11\_only : 0  
bool p\_Cxx11\_gnu\_only : 0  
bool p\_C14\_only : 0  
bool p\_C14\_gnu\_only : 0  
bool p\_Cxx14\_only : 0  
bool p\_Cxx14\_gnu\_only : 0  
bool p\_Fortran\_only : 0  
bool p\_F77\_only : 0  
bool p\_F90\_only : 0  
bool p\_F95\_only : 0  
bool p\_F2003\_only : 0  
bool p\_F2008\_only : 0  
bool p\_CoArrayFortran\_only : 0  
bool p\_Java\_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\_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\_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\_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\_syntax : 0

pointer:0x7ff250ff0120  
SgGlobal  
/home/demo/COP4934/Assignments/Assignment4/Ch4ASTWholeGraphGenerator/inputCode\_wholeGraphAST.C 0:0  
IsTransformation:0  
IsOutputInCodeGeneration:0

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SgNode\* p\_parent : 0x7ff250eba010  
bool p\_isModified : 0  
bool p\_containsTransformation : 0  
\$CLASSNAME\* p\_freepointer : 0xfffffffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x7ff25c1000c0  
Sg\_File\_Info\* p\_endOfConstruct : 0x7ff25c100118  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0  
bool p\_containsTransformationToSurroundingWhitespace : 0  
SgLabelRefExp\* p\_numeric\_label : 0  
int p\_source\_sequence\_value : -1  
SgSymbolTable\* p\_symbol\_table : 0x7ff250fa5140  
SgTypeTable\* p\_type\_table : 0x26e5c78  
std::set<SgSymbol\*> p\_type\_elaboration\_list : []  
std::set<SgSymbol\*> p\_hidden\_type\_list : []  
std::set<SgSymbol\*> p\_hidden\_declaration\_list : []  
SgDeclarationStatementPtrList p\_declarations : <too long>: <too long>: [0x7ff250a21010, 0x7ff250a213e0, 0x7ff250a217b0, 0x7ff250a21...

pointer:0x7ff250066010  
SgVariableDeclaration  
/home/demo/COP4934/Assignments/Assignment4/Ch4ASTWholeGraphGenerator/inputCode\_wholeGraphAST.C 1:1  
IsTransformation:0  
IsOutputInCodeGeneration:0  
Declaration mangled name: \_\_global\_\_variable\_declaration\_\_variable\_type\_i\_variable\_name\_x

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SgNode\* p\_parent : 0x7ff250ff0120  
bool p\_isModified : 0  
bool p\_containsTransformation : 0  
\$CLASSNAME\* p\_freepointer : 0xfffffffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x7ff2501ac340  
Sg\_File\_Info\* p\_endOfConstruct : 0x7ff2501ac398  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0x27613b0  
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() = false isFrie  
bool p\_nameOnly : 1  
bool p\_forward : 0  
bool p\_externBrace : 0  
bool p\_skipElaborateType : 0  
SgDeclarationStatement\* p\_definingDeclaration : 0  
SgDeclarationStatement\* p\_firstNondefiningDeclaration : 0x7ff250066010  
SgQualifiedNamePtrList p\_qualifiedNameList : []  
std::string p\_binding\_label :  
SgDeclarationStatement\* p\_baseTypeDefiningDeclaration : 0  
SgInitializedNamePtrList p\_variables : [0x7ff2502acc60]  
bool p\_variableDeclarationContainsBaseTypeDefiningDeclaration : 0  
SgDeclarationStatement::template\_specialization\_enum p\_specialization : 1  
bool p\_requiresGlobalNameQualificationOnType : 0  
std::string p\_gnu\_extension\_section :  
std::string p\_gnu\_extension\_alias :  
unsigned short p\_gnu\_extension\_initialization\_priority : 0  
SgDeclarationStatement::gnu\_extension\_visibility\_attribute\_enum p\_gnu\_extension\_visibility : 0  
SgVariableDeclaration::gnu\_extension\_declaration\_attributes\_enum p\_gnu\_extension\_declaration\_attribute : 0  
int p\_name\_qualification\_length : 0  
bool p\_type\_elaboration\_required : 0  
bool p\_global\_qualification\_required : 0  
bool p\_isAssociatedWithDeclarationList : 0  
bool p\_isFirstDeclarationOfDeclarationList : 1  
bool p\_is\_thread\_local : 0  
bool p\_is\_constexpr : 0

pointer:0x7ff2502acc60  
SgInitializedName  
/home/demo/COP4934/Assignments/Assignment4/Ch4ASTWholeGraphGenerator/inputCode\_wholeGraphAST.C 1:1  
IsTransformation:0  
IsOutputInCodeGeneration:0

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SgNode\* p\_parent : 0x7ff250066010  
bool p\_isModified : 0  
bool p\_containsTransformation : 0  
\$CLASSNAME\* p\_freepointer : 0xfffffffffffff  
Sg\_File\_Info\* p\_startOfConstruct : 0x7ff2501ac2e8  
Sg\_File\_Info\* p\_endOfConstruct : 0x7ff2501ac290  
AttachedPreprocessingInfoType\* p\_attachedPreprocessingInfoPtr : 0  
AstAttributeMechanism\* p\_attributeMechanism : 0  
bool p\_containsTransformationToSurroundingWhitespace : 0  
SgName p\_name : x  
std::string p\_microsoft\_uuid\_string :  
SgType\* p\_typeptr : 0x7ff25093d010  
SgInitializer\* p\_initptr : 0  
SgInitializedName\* p\_prev\_decl\_item : 0  
bool p\_is\_initializer : 1  
SgDeclarationStatement\* p\_declptr : 0x7ff24ff48010  
SgStorageModifier\* p\_storageModifier : 0x2cf57d0  
SgScopeStatement\* p\_scope : 0x7ff250ff0120  
SgInitializedName::preinitialization\_enum p\_preinitialization : 0  
bool p\_isCoArray : 0  
SgInitializedName::asm\_register\_name\_enum p\_register\_name\_code : 0  
SgInitializedName::excess\_specifier\_enum p\_excess\_specifier : 0  
std::string p\_register\_name\_string :  
bool p\_requiresGlobalNameQualificationOnType : 0  
bool p\_shapeDeferred : 0  
bool p\_initializationDeferred : 0  
SgBitVector p\_gnu\_attribute\_modifierVector : [F, F, F, F, F, F, F, F, F, F, F, F, F, F, F, F, F, F, F, F]  
unsigned long int p\_gnu\_attribute\_initialization\_priority : 0  
std::string p\_gnu\_attribute\_named\_weak\_reference :  
std::string p\_gnu\_attribute\_named\_alias :  
std::string p\_gnu\_attribute\_cleanup\_function :  
std::string p\_gnu\_attribute\_section\_name :  
int p\_gnu\_attribute\_alignment : -1  
SgDeclarationModifier::gnu\_declaration\_visability\_enum p\_gnu\_attribute\_visability : 2  
bool p\_protected\_declaration : 0  
int p\_name\_qualification\_length\_for\_type : 0  
bool p\_type\_elaboration\_required\_for\_type : 0  
bool p\_global\_qualification\_required\_for\_type : 0  
bool p\_hasArrayTypeWithEmptyBracketSyntax : 0  
bool p\_using\_C11\_Alignas\_keyword : 0  
SgNode\* p\_constant\_or\_type\_argument\_for\_Alignas\_keyword : 0  
bool p\_using\_auto\_keyword : 0  
bool p\_using\_device\_keyword : 0  
bool p\_is\_braced\_initialized : 0

