Namespace (1A)

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Local Scope

Local scope within a function
within a block

```
void func( ... ) {
	int r;

	{
		int r;

	}


}
```

Class Scope

Class scope

within a class
including definitions in an
implementation file

Class scope operator
ClassName::

```
class Ccircle {
public:
  int r;

  Ccircle ()          { r = 1; }
  Ccircle (int x)     { r = x; }

  void      setR (int x) { r = x; }
  int       getR ()    { return r; }
  double area () ;
} ;
```

File Scope

File scope
(Global scope)

A declaration outside of all functions and classes

File scope operator
::

```
int r;

void func( ... ) {
  int r;

  r = 3.0;
  ::r = 4.0;
}

class Ccircle {
   int r;

} ;
```

x.cpp

Namespace

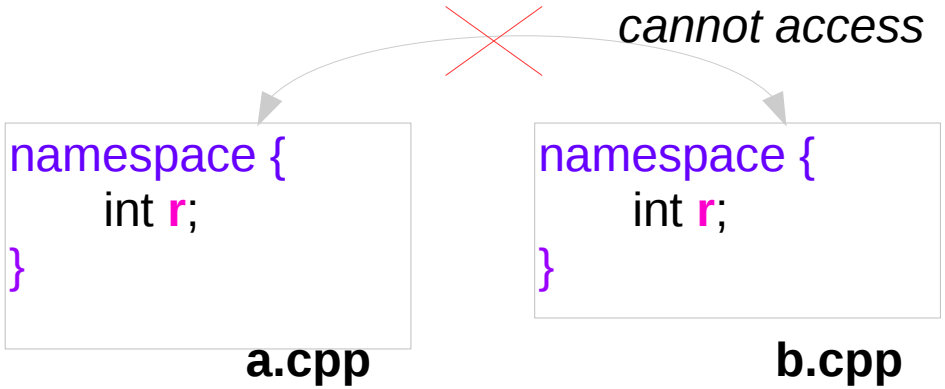
```
namespace myspc {
  int r;

}


using myspc::r;

using namespace myspc;
```

Internal & External Linkage

External Linkage

a global variable shared by two source codes

Internal Linkage



1. *unnamed namespace*
2. *static int r;*

Class Structure

References

[1] W Savitch, “Absolute C++”
[2] P.S. Wang, “Standard C++ with objected-oriented programming”
[3] http://www.cplusplus.com