

## Re: Easy Question – LINK2005 error

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*Source:* <http://www.tech-archive.net/Archive/VC/microsoft.public.vc.mfc/2007-07/msg00492.html>

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  - *Date:* Thu, 05 Jul 2007 17:26:32 -0400
- 

See below...

On Thu, 05 Jul 2007 12:43:00 -0700, bones288 <[b\\_t\\_k@xxxxxxxxxxxxx](mailto:b_t_k@xxxxxxxxxxxxx)> wrote:

```
////////// main.cpp ////////////
```

```
#include <iostream>
#include "try.cpp"
```

\*\*\*\*\*

Wouldn't you have meant  
#include "try.h"  
since it seems strange to include a .cpp file  
\*\*\*\*\*

```
using namespace std;
```

```
int main()
{
    Num Try;
    return 0;
}
```

```
////////// try.cpp ////////////
#include <iostream>
```

\*\*\*\*\*

I'm curious why this includes iostream since there is nothing here that would use it.  
\*\*\*\*\*

```
class Num{
private:
    int number;
public:
    void SetNumber(int);
};
```

## Re: Easy Question – LINK2005 error

```
void SetNumber(int a)
{
}
```

\*\*\*\*\*

This makes no sense for several reasons. First, it is an implementation in a header file that is included elsewhere. If it is included in two files, it would create duplicate symbol definitions.

I think you intended to write

```
try.h:
class Num {
private:
int number;
public:
void SetNumber(int);
};
```

try.cpp

```
#include "stdafx.h"
#include "try.h"
```

```
void Num::SetNumber(int a)
{
number = a;
}
```

Note that the name is NOT "SetNumber" but "Num::SetNumber". You defined a function which by the merest coincidence had the same name as a member function of a class, but in fact has absolutely no relationship to the class; it is a global function. It would be declared in a .cpp file that was NOT included in some other compilation by doing #include.

In the correct implementation, the try.cpp file would contain the definition of the class member, as shown above.

joe

\*\*\*\*\*

```
//////////OUTPUT GENERATED//////////
```

```
----- Rebuild All started: Project: try_examples, Configuration:
Debug Win32 -----
Deleting intermediate and output files for project 'try_examples',
configuration 'Debug|Win32'
Compiling...
try.cpp
try_example.cpp
.\main.cpp(9) : warning C4101: 'Try' : unreferenced local variable
Generating Code...
Linking...
```

Re: Easy Question – LINK2005 error

```
try.obj : error LNK2005: "void __cdecl SetNumber(int)" (?  
SetNumber@@YAXH@Z) already defined in try_example.obj  
try.obj : error LNK2005: "void __cdecl SetNumber(int)" (?SetNumber@@  
$FYAXH@Z) already defined in try_example.obj
```

```
try_examples – 3 error(s), 1 warning(s)  
===== Rebuild All: 0 succeeded, 1 failed, 0 skipped =====
```

This is a seriously simplified version of my problem so I'm hoping that someone can give me an explanation as to what's going on here? In particular the LNK2005 errors.

Thanks in advance!

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