

Hello World C++

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Planet.h

```
1 class Planet
  {
3     private:
        char name[32];
5     public:
        Planet(const char* planetName);
7         const char* getName();
  }
```

Planet.cpp

```
#include "Planet.h"

2 Planet::Planet(const char* planetName)
4 {
    strncpy(name, planetName, sizeof(name));
6     name[sizeof(name)] = 0;
    }
8 const char* Planet::getName()
    {
10     return name;
    }
```

helloworld.cpp

```
1  /*
    *****
    * Sample comment block
    *****
3  */
   #include <iostream>
5  using namespace std;
   #include "Planet.h"
7
   int main()
9  {
    Planet planet("Earth");
11    cout << "Hello " << planet.getName() << "!\n";
    return 0;
13 }
```

Application

Compiler Invocation

```
g++ -Wall -o helloworldcpp Planet.cpp helloworld.cpp
```

Compiler Messages

In file included from Planet.cpp:1:

Planet.h:1:1: error: new types may not be defined in a return type

```
1 | class Planet
  | ^~~~~
```

Planet.h:1:1: note: (perhaps a semicolon is missing after the definition of 'Planet')

Planet.h:1:1: error: return type specification for constructor invalid

Planet.cpp: In constructor 'Planet::Planet(const char*)':

Planet.cpp:5:3: error: 'strncpy' was not declared in this scope

```
5 |     strncpy(name, planetName, sizeof(name));
  |     ^~~~~~
```

Planet.cpp:2:1: note: 'strncpy' is defined in header '<cstring>'; did you forget to '#include <cstring>'?

```
1 | #include "Planet.h"
+++ |+#include <cstring>
2 |
```

In file included from helloworld.cpp:6:

Planet.h:8:2: error: expected ';' after class definition

```
8 | }
  | ^
  | ;
```

Compiler returned exit code 1.