Homework Assignment

Program
Structure and
Syntax

Namespaces

# Writing a first C++ Program Namespaces and Control Flow

01/20/2009

#### Miscellaneous

- VNC sessions from home Keep a separate ssh client open simultaneouly!
- 2 File permissions

-rw-r-r- 1 crede fsu 73481 2009-01-20 09:48 lecture.pdf Change permissions with CHMOD, e.g.: CHMOD UGO+RWX <FILE>

- 3 Editors in a simple terminal
  - emacs -nw <file>
    - Save: <Ctrl> s
    - Save and Quit: <Ctrl> s <Ctrl> c
  - nano

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1 Homework Assignment

2 Basic C++ Program Structure and Syntax Namespaces Control Flow

#### Homework Assignment

Namespaces

## Homework Assignment

- Read Chapter 5
  - "Writing a first Program"
- 2 Assignments (1), (2), and (3) of Section 5.15
  - See handout!
  - Due next Tuesday, January 27
    - → Hand in a paper copy

Homework Assignment

Basic C++ Program Structure and Syntax

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Basic C++ Program Structure and Syntax

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# The "main()" Function

```
# include <iostream.h>
main() {
   int var = 4;
   var = var + 1;
   cout << endl << var;
}</pre>
```

1 Every C++ program must contain exactly one occurrence of the *main()* construct.

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# The "main()" Function

```
# include <iostream.h>
int main() {
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1 Every C++ program must contain exactly one occurrence of the *main()* construct.

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#### Namespaces

```
# include <iostream.h>
main() {
   int var = 4;
   var = var + 1;
   cout << endl << var;
}</pre>
```

"include <iostream.h>" is an older deprecated or antiquated header file providing input and output functionality.

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```
# include <iostream> Namespaces
```

- using namespace std; main() { int var = 4: var = var + 1; cout  $\ll$  endl  $\ll$  var: # include <iostream> main() { int var = 4: var = var + 1; std::cout ≪ std::endl ≪ var:
- "include <iostream.h>" is an older deprecated or antiquated header file providing input and output functionality.
- New Standard: "include <iostream>" and using namespace.

Basic C++
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#### Control Flow

```
# include <iostream.h>
main() {
    int a, b = 1;
    cin ≫ a;
    if (a == b) {
       a = 1;
    else if (a == 5) {
        ...
```

- 1 The most fundamental control statement are the if (logical condition) ... and the following else ... statements.
- 2 Caveat: a == 5 is not the same as a = 5