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### 14.1 Running totals (5.5)

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- How many hours did you work on assignment 1?
$\qquad$
int days;
// initialize the counter
int days;
// number of days $\qquad$
// let the user tell us how many times to loop cout << "How many days did you work on assignment 1? "; cin >> days; $\qquad$
while( ) // test the counter
icout << "How many hours did you work on day " <\ll< "?"; $\qquad$
$\qquad$
,
// increment the counter

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### 14.2 Practice

- Write a snippet of code that will ask the user for a number. Print the sum of all the numbers from 0 to the number the user supplied.
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### 14.3 Practice

- Write a snippet of code that will ask the user for a number. Print the sum of all the even numbers from 0 to the number the user supplied.
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| 14.5 Practice |
| :--- |
| - Write one statement of code to do the |
| following: |
| int $x=0, y=1$; |
| - Add $x+9$ to $y$ and increment $x$ by 1 |
| - Add $x^{*} 4$ to $y$ and increment $x$ by 1 |
| - Add $y-13$ to $x$ and decrement y by 1 |
|  |



| Operator Precedence |  |  |
| :---: | :---: | :---: |
| () | L->R | Parentheses |
| ++, --, static_cast<type>() | L->R | Unary prefix (++x) |
| ++, --, !, +, - | R->L | Negation, Unary postfix ( $\mathrm{x}++$ ) |
| *, / , \% | L->R | Mult, div, mod |
| +, - | L->R | Add, Subtract |
| <<, >> | L->R | Insertion/extraction |
| $<,<=,>,>=$ | L->R | Relational |
| ==, ! $=$ | L->R | Equality |
| \&\& | L->R | And |
| 11 | L->R | Or |
| ? : | R->L | Conditional |
| =, +=, -=, *=, /=, \%= | R->L | Assignment |
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```
14.6 Examples
    int x = 0, y = 0;
    x = y++ * 2;
    y = ++x / 2;
    x = x++ + 1;
    x = ++x + 1;
    y = (y+ x++) * 2;
    x = y++ + ++x;
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\subsection*{14.7 Example}
\(\qquad\)
-What is the output if \(i=2\) ?
```

cout << "Value of i is" << i;
cout << "Value of i++ is" << i++;
cout << "Value of ++i is" << ++i;
cout << "Value of --i is" << --i;
cout << "Value of i-- is" << i--;
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