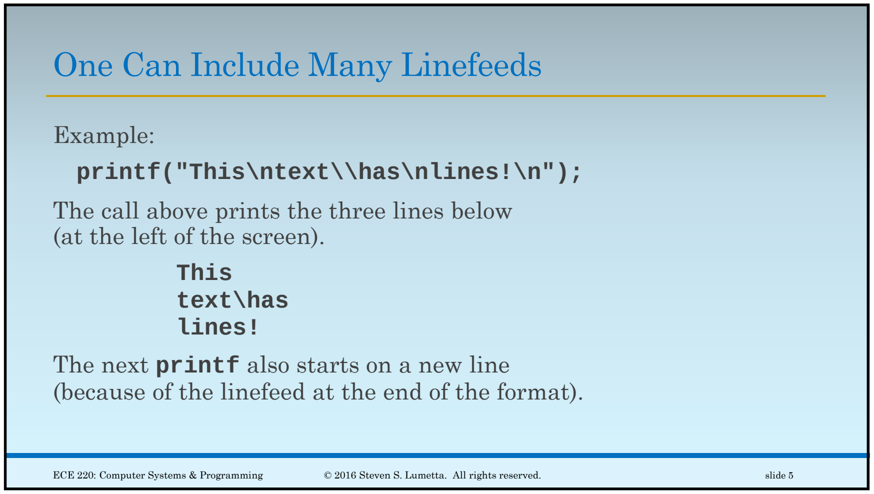


One Can Include Many Linefeeds

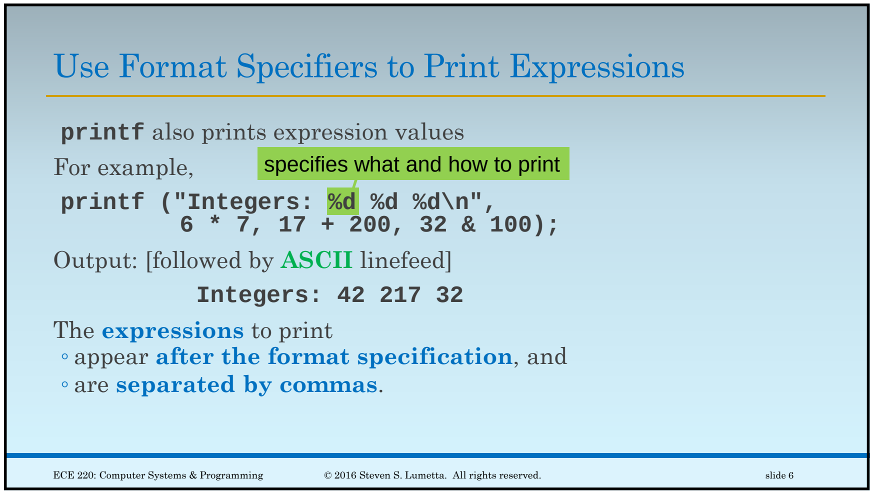
Example:

```
printf("This\ntext\\has\nlines!\n");
```

The call above prints the three lines below
(at the left of the screen).

```
This
text\has
lines!
```

The next **printf** also starts on a new line
(because of the linefeed at the end of the format).



Use Format Specifiers to Print Expressions

printf also prints expression values

For example, specifies what and how to print

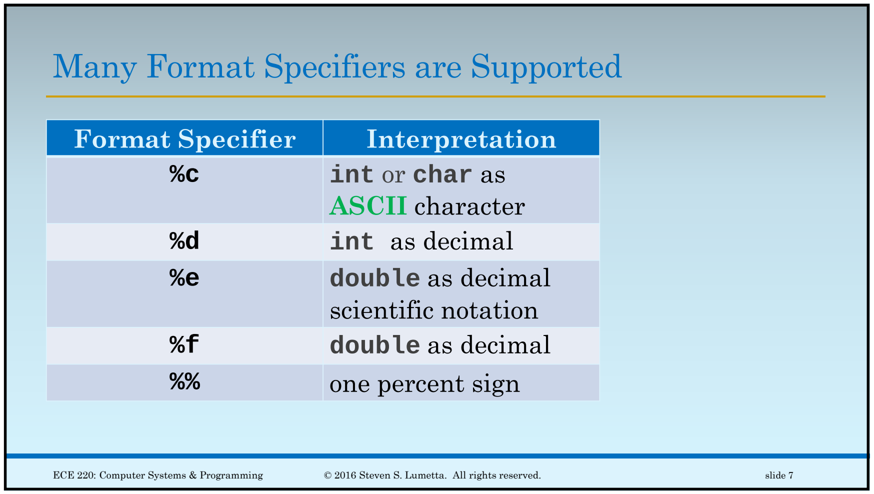
```
printf ("Integers: %d %d %d\n",
         6 * 7, 17 + 200, 32 & 100);
```

Output: [followed by ASCII linefeed]

```
Integers: 42 217 32
```

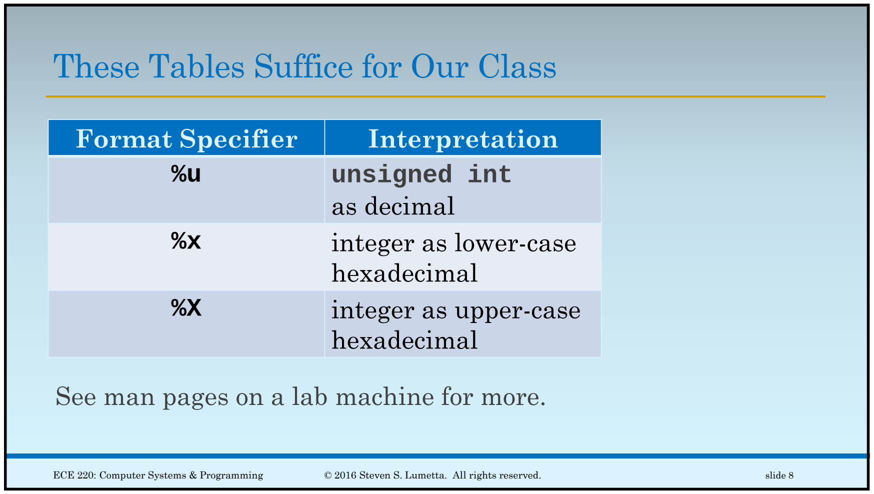
The **expressions** to print

- appear **after the format specification**, and
- are **separated by commas**.



Many Format Specifiers are Supported

Format Specifier	Interpretation
%c	**int** or **char** as ASCII character
%d	**int** as decimal
%e	**double** as decimal scientific notation
%f	**double** as decimal
%%	one percent sign



These Tables Suffice for Our Class

Format Specifier	Interpretation
%u	**unsigned int** as decimal
%x	integer as lower-case hexadecimal
%X	integer as upper-case hexadecimal

See man pages on a lab machine for more.