

This is CS50 AP.

an introduction to the intellectual enterprises
of computer science and the art of programming

Unit 1

Module 4

escape sequences for printf format strings:

`\n` for a newline

`\t` for a tab character

`\"` to include a double-quote

conditional

Boolean expressions (the conditions inside the conditional) can be combined with `&&` as "and", and `||` as "or":

```
if (condition && condition)
{
    // do this
}
```

```
if (condition || condition)
{
    // do this
}
```

Try it out. Comment the code for `complimenter.c`

Extend it to include more times of day and more languages.

loops

loops



loops



```
while (true)
{
    printf("hello, world\n");
}
```

loops



loops



```
for (int i = 0; i < 10; i++)  
{  
    printf("hello, world!\n");  
}
```

loops



loops



```
do
{
    printf("Hello, world!\n");
}
while(true);
```

using loops

for

A specified number of times, though you might not know the number when the program starts

while

An unknown number of times, possibly infinite and possibly zero

do-while

An unknown number of times, possibly infinite but at least once

Download from our class website cough.c
Upload cough.c to your cs50.io workspace
Modify it per the the sheet:

5. On your computer, modify the code so that it will output:

```
cough  
cough  
cough  
sneeze  
sneeze
```

6. Modify the code so that it will output, including the quote-marks around sneeze:

```
cough  
"sneeze"  
cough  
"sneeze"  
cough  
"sneeze"
```

7. Modify the code so that it will output ninety-nine times in this format:

```
(1) cough (2) cough (3) cough ... (99) cough
```

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