C Bootcamp

CI Computer Girls

April 29, 2016

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main() {
   printf("Hello, world!\n");
}
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- A C program consists of functions and variables.
- A function contains statements that specify the computing operations to be done.
- Variables store values to be used during computation.
- Normally you can name functions whatever you like, but every program must contain a function named main.

 Copy the code above into an empty file hello.c in your task1 directory (We'll help you find it), and then from your terminal:

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#include <stdio.h>
main() {
  printf("Hello, world!\n");
}
```

 Copy the code above into an empty file hello.c in your task1 directory (We'll help you find it), and then from your terminal:

```
# cd ~/Desktop/bootcamp/task1
# gcc hello.c
# ./a.out
```

Prompts

Arguments

```
#include <stdio.h>
 2
 3
     int main(int argc, char** argv)
 4
     {
 5
       // argc is always at least 1, because
 6
       // the first argument value is the program name
 7
       if (argc < 2) {
8
         fprintf(stderr, "Usage: %s <name>\n", argv[0]);
9
         return -1;
10
11
12
       fprintf(stdout, "Hello, %s!\n", argv[1]);
13
       return 0;
14
```

Pointers

Arrays

Structs

Headers