

check50

Overview

check50 is a command line program built into the CS50 IDE with which you can check the correctness of your programs.

Key Terms

- check50
- command line

Usage

To run check50, open a terminal in the CS50 IDE and type check50 <problem_slug>

To check hello, for example, you may run check50 cs50/2017/ap/hello.

Output

When running check50 on a program, a series of checks will be performed. Based on the correctness of your code, you will see differening output in the terminal window.

Assuming your program is correct, you should then see :) hello.c exists output like the right where each green smiley means your program passed a check (i.e., test).

- :) hello.c compiles
- :) prints "hello, world\n"

If you instead see yellow or red smileys, it means your code isn't correct! For instance, suppose you instead see the right.

Because check50 doesn't think hello.c exists, as per the red smiley, odds are you uploaded the wrong file or misnamed your file. The other smileys, meanwhile, are yellow because those checks are dependent on hello.c

```
:( hello.c exists
  \ expected hello.c to exist
: | hello.c compiles
 \ can't check until a frown turns upside down
:| prints "hello, world\n"
\ can't check until a frown turns upside down
```

Suppose instead you see the right.

Odds are, in this case, you printed something other than hello, world\n verbatim, per the spec's expectations. In particular, the right suggests you printed hello, world, without a trailing newline (\n).

```
:) hello.c exists
:) hello.c compiles
:( prints "hello, world\n"
\ expected output, but not "hello, world"
```

Relationship to Grades

Know that check50 won't actually record your scores in CS50.me. Rather, it lets you check your work's correctness before you submit your work. Once you actually submit your work usign submit50, your work will be graded automatically using the same tests.

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