

Coursework 2

How to start

This assignment comes with two files: tic.h and tic.c.

tic.h contains function prototypes and some other declarations. DO NOT CHANGE ANYTHING IN THIS FILE.

tic.c is the template that you will use to write your code. Please read the comments in this file before you start entering your code.

To start working, download tic.h and tic.c to your computer, read the problem brief very carefully, then start adding flesh to tic.c

To compile your code on Linux, type:

```
cc -std=c99 tic.h tic.c -o tic
```

This will compile the program and save the executable code to a file called tic

To run the program, type:

```
./tic
```

Please read the problem brief very carefully, and start implementing the program on your computer, and manually check every feature of the game as you work.

The autograder for this assignment is available on Gradescope. You can also run a version of the autograder on your **Linux** machine. This will save you the trouble of submitting your code to Gradescope multiple times. The local autograder will only grade the functions (except showGrid). To run the local grader on your computer (Linux only) follow the following steps:

- 1) Download the SelfGrader.c file which you can find below.
- 2) Uncomment the #define TEST line at the beginning of the tic.h file
- 3) Compile your program using the following command:

```
cc -std=c99 tic.h tic.c SelfGrader.c -o tic
```

- 4) Run the program by typing ./tic. You will then see the results of the tests and your grades on the screen.

Enjoy

Guidance Video

Please watch this video before posting questions on Teams. Most likely you will find the answer to your questions in the video.

<https://mymedia.leeds.ac.uk/Mediasite/Play/8676666a01c94228b1d787d7c4abcb0a1d?catalog=1fb5728f5eec454bb6204135ee4fab721&playFrom=3482&autoStart=true>

If the above link does not work, you can find the video in Media.

Hints

In this area, I will post some useful hints about the coursework based on frequent questions I may be asked. Check this area regularly for more hints.

Hint 1) To accept two integer numbers separated by a comma as input to scanf, use the following conversion string: "%i,%i"

Hint 2) To get a full mark for function effPlayerHasWon check for a winning line in the following order, horizontal, vertical, diagonal, and finally antidiagonal.

Assignment Brief

tic.h

tic.c

SelfGrader.c

InterfaceTestInput.txt

CorrectInterface.txt

PlaybackTestInput.txt

CorrectPlayback.txt

CorrectShowGrid.txt