

Cool Program Examples

The following list contains a few small and not so small example programs which illustrate various aspects of the Cool programming language.

You can copy these files into your working directory on Cool machine, for example, io.cl, by typing

```
$ cp /home/CS4430/examples/io.cl .
```

You can compile and run these programs, for example, io.cl, by typing

```
$ coolc io.cl
$ spim io.s
```

arith.cl	Tests various aspects of arithmetic in Cool.
atoi.cl	An implementation of the C function by the same name. It converts a String into an Int.
atoi_test.cl	An example program using atoi.cl. Since you will most likely use atoi.cl in the first assignment, you should study this example.
list.cl	A very simple program showing how to create a list data type for integers. It illustrates inheritance and dynamic dispatch.
book_list.cl	Illustrates inheritance and in particular the mechanism of STATIC DISPATCH and the CASE statement.
cells.cl	Models a one-dimensional cellular automaton.
cool.cl	A short and obscure program.
io.cl	Shows how to use the IO class. (input/output)
hairyscary.cl	Exercises many of the obscure features of the language in obscure ways.
hello_world.cl	The classic first program.
primes.cl	An unusual prime number generator.
graph.cl	A program reading descriptions of weighted directed graphs from stdin in text format.
g1.graph	A sample input to graph.cl
palindrome.cl	Recognizes palindromes.
complex.cl	Checks the = operator and commutative effects of method calls via a complex number object.
life.cl	The classic Game of Life
sort_list.cl	A more complex example sorting lists of integers.