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T 7-9:45pm

PROGRAMMING ASSIGNMENT #5 README

Use g++ to compile. Run from command prompt using
command: g++ main.cpp –o driver
Then run using command: ./driver

Sample Output:

 make clean; make

rm -f *.o driver blarg avada kedavra

g++ -std=c++11 -c -g -Wall main.cpp

g++ -std=c++11 -c -g -Wall op_overloading_test.cpp

g++ -std=c++11 -c -g -Wall map.cpp

g++ -std=c++11 -c -g -Wall map_item.cpp

g++ -std=c++11 main.o op_overloading_test.o map.o map_item.o -g

-o driver

 ./driver

--- Testing map_item default constructor initializes to E ---

PASS

--- Testing map_item constructor accepts char ---

PASS

--- Testing map_item sets type correctly ---

PASS

--- Testing map_item gets type correctly ---

PASS

--- Testing map_item implements ostream << (visual comparison

required) ---

EXPECTED:

K

File Format Sample Data

SIZE

BUILDING_CODES // for each building in size * size

2

E X R E

Map

- size : int

- items : MapItem *

+ Map()

+ Map(int)

+ ~Map()

+ getSize() : int

+ build(int, int, char) : void

+ getMapItem(int, int) : MapItem

+ operator>> (ifstream&, Map&) : ifstream&

+ operator<< (ofstream&, const Map&) : ofstream&

+ operator<< (ostream&, const Map&) : ostream&

MapItem

- type : char

+ MapItem()

+ MapItem(char)

+ getType() : char

+ setType(char) : void

+ operator>> (ifstream&, MapItem&) : ifstream&

+ operator<< (ostream&, const MapItem&) : ostream&

IMPLEMENTED:

K

--- Testing map_item implements ifstream/ofstream ---

PASS

--- Testing map size is correct ---

PASS

--- Testing map default buidling is 'E' ---

PASS

--- Testing map builds correctly ---

PASS

--- Testing map builds correctly (inverted coordinates) ---

PASS

--- Testing map implements ostream << (visual comparison

required) ---

EXPECTED:

E O E E E E E E E

E E E E E E E E E

E E E E E E E E E

E E E E E E E E E

E E E E E E E E E

E E E E E E E E E

E E E E E E E E E

E E E E E E E E E

E E E E E E E E E

E E E E E E E E E

IMPLEMENTED:

E O E E E E E E E

E E E E E E E E E

E E E E E E E E E

E E E E E E E E E

E E E E E E E E E

E E E E E E E E E

E E E E E E E E E

E E E E E E E E E

E E E E E E E E E

E E E E E E E E E

--- Testing map implements ifstream/ofstream ---

PASS

▷ cat avada

X

▷ cat kedavra

5

\ E | E / E \ | / E - - | - - E / | \ E / E | E \