POTD9.1. Problem of the Day #9

Download and Extract

An initial setup of files is provided to you via a shell script: Download potd-q9

Using a terminal, extract the initial files by running the shell script you just downloaded (you will need to navigate to the directory where you saved the file):

```
sh potd-q9.sh
```

Your files for this problem will be in the potd-q9 directory.

The Problem

In class you saw how to create a dynamic list of property names. This time we are going to extend that by making a class that keeps track of both properties and values (e.g., property: color, value: green).

Write a class Thing. It should have these private variables:

- int props_ct_ to count how many properties we have,
- int props_max_ to return the maximum number or properties,
- string *properties_ containing the names of the properties,
- string *values_ containing the values of the properties.

Your class should have the following methods:

- Thing(int size) a constructor that takes the max size of the properties and values arrays.
- Thing(const Thing &) a copy constructor.
- The other two methods you need because of the Rule of Three. Make your own private copy_ and destroy_ methods to assist with this.
- int set_property(string name, string value) Takes a property name and value, and inserts them into the arrays. Returns the index into the array if successul, and -1 if the array was full. If the property name already exists, replace the value.
- string get_property(string name) Returns the corresponding value for a given property name, or else an empty string if that property is not found.
- You may want to have a _copy(const Thing &) method, but that is optional.

Testing Your Code

Run the following commands to compile and execute your code:

make		
./main		

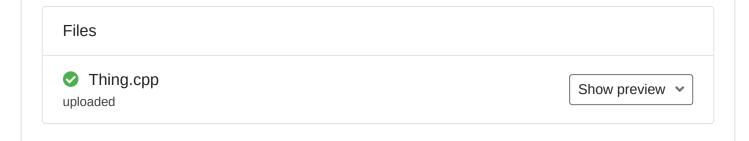
Sample Output

Kermit is Green Kermit is Green Grover is Blue

Upload Solution

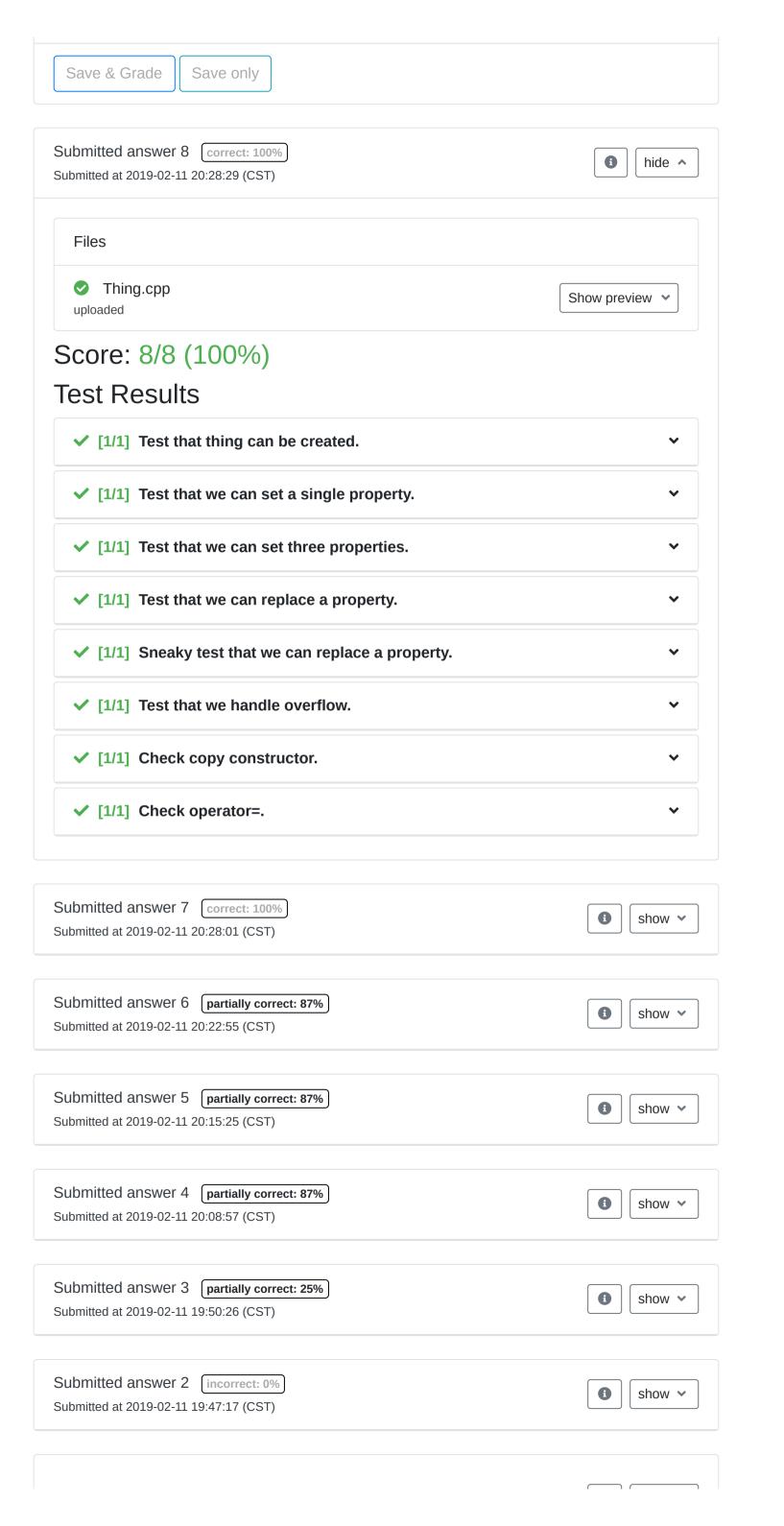
Drop files here or click to upload.

Only the files listed below will be accepted—others will be ignored.



POTD 9	
Total points:	1/1
Score:	0%
Question	
Value:	1
History:	11
Awarded point	s: 1/1
Report an error i	in this question
Previous	question

Next question



Submitted answer 1 incorrect: 0%
Submitted at 2019-02-11 19:44:52 (CST)

show >