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Username:	e0417562	**Submission ID:**	1733565	**Date Submitted:**	07 Oct 2019 19:54:17
Status:	Graded	**Data Test Set**	0	**Last Updated:**	07 Oct 2019 19:54:28
Grade:	E	**Test Cases:**	1/5 correct	**Task Name:**	CS2030 Lab #6
Marks:	20 (/100)			**Course Name:**	CS2030 - Programming Methodology II

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Test Output:

TEST RUN ERRORS

Fail Test Case: test2

Incorrect Output

Expected output vs your output:

Expected Output		Your Output	
1	`jshell> Trace.of("hello", "h", "he", "hel", "hell").back(2).get()`	1	`jshell> Trace.of("hello", "h", "he", "hel", "hell").back(2).get()`
2	`==> "hel"`	2	`==> "h"`
3	`jshell> Trace.of("hello", "h", "he", "hel", "hell").back(2).history()`	3	`jshell> Trace.of("hello", "h", "he", "hel", "hell").back(2).history()`
4	`==> [h, he, hel]`	4	`==> [h, he, hel]`
5	`jshell> Trace.of("hello", "h", "he", "hel", "hell").back(9).get()`	5	`jshell> Trace.of("hello", "h", "he", "hel", "hell").back(9).get()`
	...		...
11	`jshell> Trace.of(1, 5, 4, 3, 2).equals(Trace.of(0, 5, 4, 3, 2, 1).back(1))`	11	`jshell> Trace.of(1, 5, 4, 3, 2).equals(Trace.of(0, 5, 4, 3, 2, 1).back(1))`
12	`==> true`	12	`==> true`
13	`jshell> /exit`	13	`jshell> /exit`
		14	`Test test2 failed.  Grading terminated.`

Fail Test Case: test3

Incorrect Output

Expected output vs your output:

	Expected Output	You Outp
1	jshell> Trace.of("h").map(s -> s + "ello").get()	
2	==> "hello"	
3	jshell> Trace.of("h").map(s -> s + "ello").history()	
4	==> [h, hello]	
5	jshell> Trace.of(1, 0).map(x -> x + 1).map(y -> y + 2).history()	
6	==> [0, 1, 2, 4]	
7	jshell> Trace.of(1, 0).map(x -> x + 1).back(1).map(y -> y + 2).history()	
8	==> [0, 1, 3]	
9	jshell> Trace.of("h").map(x -> x).get().equals(Trace.of("h").get())	
10	==> true	
11	jshell> Trace.of("h").map(x -> x).equals(Trace.of("h"))	
12	==> false	
13	jshell> Function f = x -> x + 1	
14	jshell> Function g = x -> x * 10	
15	jshell> Function h = x -> g.apply(f.apply(x))	
16	jshell> Trace.of(10).map(f).map(g).get().equals(Trace.of(10).map(h).get())	
17	==> true	
18	jshell> Trace.of(10).map(f).map(g).equals(Trace.of(10).map(h))	
19	==> false	
20	jshell> Function collatz = x -> (x % 2 == 0) ? (x/2) : (3*x + 1)	
21	jshell> Trace t = Trace.of(9)	
22	jshell> while (t.get() != 1) t = t.map(collatz)	
23	jshell> t.history()	
24	==> [9, 28, 14, 7, 22, 11, 34, 17, 52, 26, 13, 40, 20, 10, 5, 16, 8, 4, 2, 1]	
25	jshell> /exit	

Fail Test Case: test4

Incorrect Output

Expected output vs your output:

	Expected Output	Your Output
1	jshell> Function> f = x -> Trace.of(x).map(y -> y + 1)	
2	jshell> Function> g = x -> Trace.of(x).map(y -> y * 10)	
3	jshell> Trace.of(1).flatMap(f).get()	
4	==> 2	
5	jshell> Trace.of(1).flatMap(f).history()	
6	==> [1, 2]	
7	jshell> Trace.of(1).flatMap(f).equals(f.apply(1))	
8	==> true	
9	jshell> Trace.of(1).equals(Trace.of(1).flatMap(x -> Trace.of(x)))	
10	==> true	
11	jshell> Trace.of(1).flatMap(f).flatMap(g).get()	
12	==> 20	
13	jshell> Trace.of(1).flatMap(f).flatMap(g).history()	
14	==> [1, 2, 20]	
15	jshell> Function> h = x -> f.apply(x).flatMap(g)	
16	jshell> Trace.of(1).flatMap(h).equals(Trace.of(1).flatMap(f).flatMap(g))	
17	==> true	
18	jshell> Trace log2(Long n) {	
19	...> return (n == 1) ? Trace.of(1L) : Trace.of(n, n).flatMap(y -> log2(y/2));	

20	`   ...> }`	
21	`jshell> Trace.of(4905L).flatMap(x -> log2(x)).history()`	
22	`==> [4905, 2452, 1226, 613, 306, 153, 76, 38, 19, 9, 4, 2, 1]`	
23	`jshell> /exit`	

Fail Test Case: test5

Incorrect Output

Expected output vs your output:

	Expected Output	Your Output
1	`jshell> Function f = x -> x.hashCode()`	
2	`jshell> Trace t = Trace.of(23.6, 1)`	
3	`jshell> t.map(f).get() != null`	
4	`==> true`	
5	`jshell> Function> g = x -> ChildTrace.of(x.hashCode())`	
6	`jshell> t = t.flatMap(g)`	
7	`jshell> /exit`	

☑ Expand

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