Optional Project2

21800147 Youyoung Kim

How to compile?

- I ran the program in the Eclipse.
- Just press the run button and run it.

CLI option descriptions

- In run configuration, enter the desired option and test case in the instrument before running.
    - Option
        ➡ "-p": If you only want to see the results of parser.
        ➡ "-b": If you want to see both the results of parser and the output result.

Example) In RBMRCFAE,
-p "{with {swap {refun {x} {refun {y} {with {z x} {seqn {setvar x y} {setvar y z}}}}}} {with {a 10} {with {b 20} {seqn {{swap a} b} b}}}}"

result: (app (fun 'swap (app (fun 'a (app (fun 'b (seqn (app (app (id 'swap) (id 'a)) (id 'b)) (id 'b))) (num 20))) (num 10))) (refun 'x (refun 'y (app (fun 'z (seqn (setvar 'x (id 'y)) (setvar 'y (id 'z)))) (id 'x)))))

==

-b "{with {swap {refun {x} {refun {y} {with {z x} {seqn {setvar x y} {setvar y z}}}}}} {with {a 10} {with {b 20} {seqn {{swap a} b} b}}}}"

result: (app (fun 'swap (app (fun 'a (app (fun 'b (seqn (app (app (id 'swap) (id 'a)) (id 'b)) (id 'b))) (num 20))) (num 10))) (refun 'x (refun 'y (app (fun 'z (seqn (setvar 'x (id 'y)) (setvar 'y (id 'z)))) (id 'x)))))
(v*s (numV 10) (aSto 3 (numV 10) (aSto 2 (numV 20) (aSto 4 (numV 10) (aSto 3 (numV 20) (aSto 2 (numV 10) (aSto 1 (refclosV 'x (refun 'y (app (fun 'z (seqn (setvar 'x (id 'y)) (setvar 'y (id 'z)))) (id 'x))) (mtSub)) (mtSto))))))))

==

 "{with {swap {refun {x} {refun {y} {with {z x} {seqn {setvar x y} {setvar y z}}}}}} {with {a 10} {with {b 20} {seqn {{swap a} b} b}}}}"

(v*s (numV 10) (aSto 3 (numV 10) (aSto 2 (numV 20) (aSto 4 (numV 10) (aSto 3 (numV 20) (aSto 2 (numV 10) (aSto 1 (refclosV 'x (refun 'y (app (fun 'z (seqn (setvar 'x (id 'y)) (setvar 'y (id 'z)))) (id 'x))) (mtSub)) (mtSto))))))))

*** Be careful about spacing ***
Each word must be spaced and there must be spacing between { and }.
The Enter must not go in (new line)