

Libraries List

Basic operation:

1. add(e1, e2)
2. minus(e1, e2)
3. multiply(e1, e2)
4. divide(e1, e2)
5. =, <, >, <=, >=

Loop operation:

6. for_Loop(;;)
7. condition_Loop(boolean)

Basic sorting operation:

8. selectionSort(array)
9. bubbleSort(array)
10. insertionSort(array)
11. quickSort(array)
12. mergeSort(array)
13. heapSort(array)

Basic calculating operation:

14. fib(array)
15. power(base, powernum)
16. abs()
17. sin, sinh, arcsin, cos, cosh, arccos
18. tan, tanh, arctan, cot

Basic type transforming operation:

19. number2String()
20. string2Int()
21. string2Double()
22. string2Float()
23. string2Long()
24. string2Array()
25. char2String()

Basic file operation:

26. openfile(fileName)
27. readfile()
28. writefile()
29. scanFile()
30. printFile()

Condition if:

31. if, else

Examples: fibb.lw, count.lw, conway.lw

all files must be a .lw file, so the compiler can compile it.

run it with : java SimpleTuringMachine test.lw

fibb.lw:

with all APIs in the library, a simple fib number for test.

count.lw:

a simple example to count from 9 to 1.

conway.lw:

conway's Life Game. the game itself is a turing-complete model.