CSE341 – Programming Languages (Fall 2020) Homework #4

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Part1:

?- route(edirne,X).
edremit
erzincan
false.

?- route(istanbul,X).
antalya
izmir
gaziantep
ankara
van
rize
konya
gaziantep
izmir

gaziantep
ankara
van
rize
isparta
burdur
konya
van
rize
false.

?- route(ankara,X).
istanbul
konya
van
antalya
izmir
gaziantep
van

rize
konya
gaziantep
van
rize
isparta
burdur
false.

Part2:

?- sroute(edremit,erzincan,X).
X = 1066.

?- sroute(edremit,edirne,X).
X = 235.

?- sroute(ankara,edirne,X).
false.

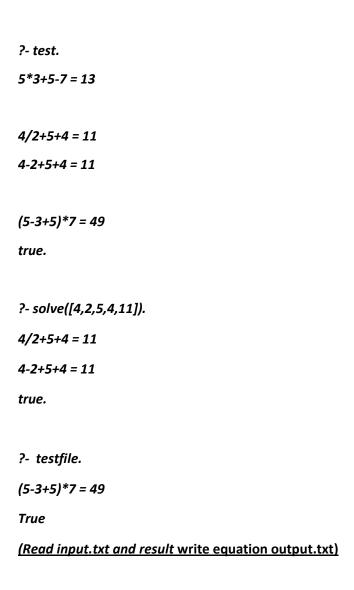*?- sroute(ankara,van,X).*
X = 920

Part3:

Please press the space bar if you want to show the next result.

?- schedule(a,P,T).
P = z23,
T = 10 ;
P = z11,
T = 12.

?- usage(207,T).
T = 16 ;
T = 17.

?- conflict(455,452).
true.

?- conflict(455,102).
false.

?- meet(a,b).
true.

?- meet(a,d).
false.

Part4:

?- element(5,[1,2,3,4,5]).
true.

?- element(5,[1,2,3,4]).
false.

?- union([1,2],[3,4],[1,2,3,4]).
true.

?- union([1,2],[3,4],[1,2,3,4,5]).
false.

?- intersect([1,2,3],[3,4],[1,2,3,4,5]).
false.

?- intersect([1,2,3],[3,4],[3]).
true.

?- equivalent([1,2,3],[3,4,1,2]).
false.

?- equivalent([1,2,3,4],[3,4,1,2]).
true.

Part5:

Please editing own your on path line 9 and 10

?- test.

5*3+5-7 = 13

4/2+5+4 = 11

4-2+5+4 = 11

(5-3+5)*7 = 49

true.

?- solve([4,2,5,4,11]).

4/2+5+4 = 11

4-2+5+4 = 11

true.

?- testfile.

(5-3+5)*7 = 49

True

(Read input.txt and result write equation output.txt)

Part6:

Please editing own your on path line 9

?- test.

```
 xxx
xx x
 xxx  xx
  xx  xx
  xxxxxx
x xxxxx
xxxxxx
   x
   xx


   xxx x
   xx xxxx x
   x xxx xxx
  xx xxxx
 xxx xxx x    xxx
xxx  xx xx   x xxx
xx  xx xx    xx xx
    xx x x  xx x x
    x xx x   xxxx
    x x xx    xx
     xx xx  xxxxxxx
    xx xx   xx  xxxx
    x xx xx x   x  x
xxx  xxx xxxxx     x
x x xxx x    x    xx
xx  xxx x    xxx xxx
 x xxx xx xxxxxxxx
xxxx xxx xxxxxxxx
  x xxxx xx xxxxx
  x xxxx xx   xx
   xxxx xx  xxxxx
   xxxxx xxx  xxxxx
   xxxx x         x
  xxxx xx
  xxx xxx


            xxxxx
  xx          xxx  xx
  xx          xxxxx  x
  xx          xxxxxxxx
```

```
xx   xxxxx xxxxxxxxxx
x x xx   x   xxxxxx
x xx   x     xxx
xx     x        x
 xx    xxxxxx      xx
  xxxxxxxxxxxxx   xxxx
   xxxxxxxxxx xxxxxxxx
   xx x xxxx xxx  xxxxxx
     xxxxxxxxxxxxxxxxx
     xxxxxxxxxxxxxxxx
    xxxxxxxxxxxxxxxxx
     x  xxxxxxxxxxxxxx
     x x xxxxxxxxxxxxx
      xxxxx  xxxxxxxxx
         xxxxxxxx
          xxxxxx
true.
```

?- solve([[2], [1,1], [1,1], [2], [2,1], [1,2,2], [4,1], [3]], [[2], [1,1], [2], [2,4], [1,1,2], [1,1,1,1], [2,2], [0]]).

```
   xx
   x x
   x x
    xx
xx x
x xx xx
 xxxx x
   xxx
```
true.

(*result* bitmap write output.txt)