

testgen/runs-2014-07-27__04_03_21

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results from testgen/runs-2014-07-27__04_03_21

1 Validate Solution

- size attributes on relations (1406448497.essence), sets (1406448497.essence).
- inner most set not converted to matrix in solution translation.

Listing 1.1: 1406468690.essence

```
Expected: matrix indexed by [int, int] of relation (set of int)
Found:    matrix indexed by [int, int] of relation (matrix indexed by [int] of
          int)
```

2 Inconsistent

- Only 1 of out of the 3 eprimes are satisfiable, when they should all be.

Listing 1.2: 1406438642.essence

```
language Essence 1.3
find var0:
  relation of
    (relation (size 1) of (int(3..5) * int(4..4)) *
     matrix indexed by [int(3..5)] of int(5..5) * function int(2..5) -->
     int(5..5))
```

- 5 eprimes, 4 are satisfiable, one is not, when they should all be satisfiable

Listing 1.3: 1406470083.essence

```
language Essence 1.3
find var0:
  function (surjective, minSize 4)
    set of int(2..3) --> matrix indexed by [int(5..5)] of int(5..5)
```

- 2 eprimes, only 1 satisfiable when they both should be satisfiable.

Listing 1.4: 1406470239.essence

```
language Essence 1.3
find var0: set (size 3) of function int(2..3) --> int(4..4)
```

3 Solution Translation

- partition from matrix, partition from set (1406434592.essence)
- function set -> function -> int (1406435421.essence)
- relation of function -> function -> relation (1406449575.essence)

4 Misc

- If one of the eprimes timed out, it shouldnot used in the inconstant calculations (1406448933.essence).
- Always allow solution translation and solution validation? solution translation is basically instant. solution validation can take a while if there are lots of constraints. Same reason as above.