## Homework 2

```
start = time.time()
```

## Solution:

Program took 77.75 seconds to find solution(s).

Number of Solutions: 1

S: 9

J: 7

C: 8

1: 2

N: 6

```
E: 5
```

U: 1

L: 3

A: 0

R: 4

```
def equation(c, t, h, e, k, i, r, s):
   start = time.time()
   problem.addConstraint(constraint.AllDifferentConstraint())
```

**Solution:** 

Program took 13.37 seconds to find solution(s).

Number of Solutions: 1

C: 5

T: 6

H: 9

E: 4

K: 3

I: 0

R: 1

S: 7

```
1c)
def equation(d, y, f, l, o, u, e, c, k):
    problem.addVariables("OUECK", range(10))
    problem.addConstraint(constraint.AllDifferentConstraint())
    stop = time.time()
```

**Solution:** 

Program took 29.47 seconds to find solution(s).

Number of Solutions: 1

D: 5

Y: 8

F: 9

L: 1

O: 7

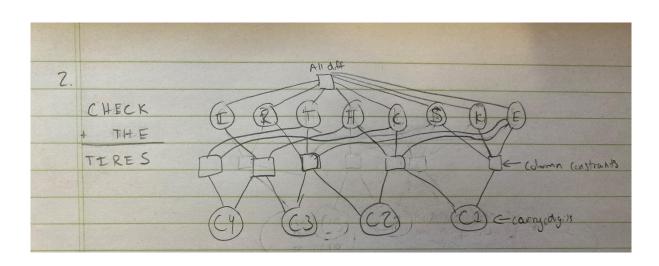
U: 0

E: 4

C: 3

K: 6

2)



	11 1 2		
9	Honework ?		
5	3 a) (Fact A Draks -> Party) v (Draks A Dance -> Party)		
	[TE 1 D 1 2 24) V (The hours Dance) V Party		
	- (- Paul v-Drakes v Perty) + (- Drakes v- Race v Perty)		
	-Food VI - Drinks V - Dance V Perty		
	6) Party - Don'ts:		
	-Party v Danks		
	e) By the second		
	c) Step Formula	Dernation	
	1 Food V-Brinks V-Dave V Arry	Given	
	2 Party 17 Drinks	Negated Conclusion	
	3		
	(2) 2010 (25) 2010 201		
	Party 1 - Drinks V - Drinks		
	(Party 1 - Donks) v (-Food v-Drinks v -Dance v Party)  At this stage, we decde to give up looking		
	for a proof. We cannot find the proof since the		
	goal is a singular and clause. It does not mean the statement is false; we can just		
	mean the Statement is talse; we can just		
	not prive by realtation.		
		The state of the said	