

(See readMe.txt to find how to compile, and which version of SAT we use)

1. Get the puzzle from <http://magictour.free.fr/top95>, and we choose the fifth line

....14....3....2...7.....9...3.6.1.....8.2.....1.4....5.6.....7.8...

as our source number, which stored in test.txt

2. Run CNF, and it creates a SATinput.txt, by transforming the source test.txt
3. Run Sat Solver, and it summarizes the following information:

```
*****the instance is satisfiable *****
****verification of solution is OK****
NB_MONO= 165, NB_UNIT= 3991, NB_BRANCHE= 135, NB_BACK= 65
Program terminated in 0.000 seconds.
satz41 SATinput.txt 0.000 135 65 7351 236 1 729 8846 -4326
```

Then a SAToutput.txt is created

4. Run Result, and it creates solution.txt, which contains the result of the puzzle
5. Puzzle

```
0 0 0 0 1 4 0 0 0
0 3 0 0 0 0 2 0 0
0 7 0 0 0 0 0 0 0
0 0 0 9 0 0 0 3 0
6 0 1 0 0 0 0 0 0
0 0 0 0 0 0 0 8 0
2 0 0 0 0 0 1 0 4
0 0 0 0 5 0 6 0 0
0 0 0 7 0 8 0 0 0
```

Puzzle Solved:

```
9 6 2 3 1 4 8 5 7
1 3 4 5 8 7 2 6 9
5 7 8 2 9 6 4 1 3
8 4 7 9 6 2 5 3 1
6 5 1 8 7 3 9 4 2
3 2 9 1 4 5 7 8 6
2 8 5 6 3 9 1 7 4
7 9 3 4 5 1 6 2 8
4 1 6 7 2 8 3 9 5
```