

CMPT 317, Term 2, 2013
Assignment 2
Question 1
Are you satished with Constraint Satisfaction?

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1 Compiling

Not required for Python

2 Execution

To execute, change the terminal directory to where this PDF file sits. Then in the terminal execute:

```
python src/Q1.py
```

3 Usage

No usage required, script is self automated

4 Explanation

The script will take in the Midterm.Constraints.txt and it already knows about the domains.

It will go from 0 till 100 trying to find acceptable domains given the constraints.

It will range from Domain-N to Domain+N, if the constraint is found in that range the Domain is removed as a acceptable domain.

The program continues until there is no more successful answers, at that point it will grab the previous set of acceptable answers and print them out.

NOTE: for ease of comparison I've transformed all dates into the day of year they represent Ex) March 11 == 70th day of the year

I convert the accepted dates back into their string representation for reading.

5 Answer

According to the script, March 11th (70th day of the year) is the highest accepted date between constraints and is the day of the Midterm

6 Suggestions

I really really liked the idea of this question when posted, although it would be much cooler if we could enter in our own constraints (ex: other midterms scheduled) and try find our most acceptable midterm date out of the Domains provided. Obviously majority gets the midterm date of their choosing.