

CS 6040 Homework #1: # 2SAT Algorithms
Friday, September 15th, 2023
(45 pts.)

Introduction

As mentioned in class, 2SAT is the problem of determining, given a boolean formula in 2CNF, whether the formula can be satisfied. The problem #2SAT is the associated counting problem — given a boolean formula Φ in 2CNF, determine *how many* settings of the variables of Φ cause Φ to evaluate to true. While 2SAT can be solved in polynomial-time, we believe that #2SAT cannot be solved in polynomial-time.

We will use a very simplified format to describe a 2SAT formula. Every 2SAT formula

$$\Phi = (l_{i_1} \vee l_{i_2}) \wedge \dots (l_{i_k} \vee l_{i_{k+1}})$$

will be represented as a list of numbers:

$[-]i_1, [-]i_2$
...
 $[-i]i_k, [-]i_{k+1}$

where $[-]$ and $[-i]$ denote negation literals, such as $\neg x_i$, are represented by negative

2sat Study Guide

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