

Solutions to Midterm 2

1. Prove or disprove:

- (a) Let M be a deterministic Turing machine that, on inputs of length n , uses space $O(n^2)$. Then for every input x , and every configuration C of the computation of M on input x , $K(C) \leq O(|x|)$ where K is Kolmogorov complexity and $|x|$ is the length of x .
- (b) Let M be a deterministic Turing machine that, on inputs of length n , uses space $O(n^2)$ and time $O(n^3)$. Then for every input x , and every configuration C of the computation of M on input x , $K(C) \leq O(|x|)$ where K is Kolmogorov complexity and $|x|$ is the length of x .

[30 points]

SOLUTION OUTLINE:

- (a) The statement is false. Consider a machine M which simply looks at the length n of the input and then enumerates all possible strings of length n^2 on its tape. Since there is a string C of length n^2 such that $K(C) \geq O(n)$, we get a contradiction.
- (b) This statement is true. Any configuration C of the machine can be described by specifying the code of the machine, the input and the time at which the configuration occurs. Since the code of the machine is a constant, the time can be specified in $O(\log |x|^3) = O(\log x)$ bits and the input is $|x|$ bits, this gives $K(C) \leq O(|x|)$.

2. We define #SAT to be the language

$$\#SAT = \{(\varphi, k) \mid \varphi \text{ has exactly } k \text{ satisfying assignments}\}$$

Show that:

- (a) #SAT is coNP hard (recall that $\text{coNP} = \{L \mid \bar{L} \in \text{NP}\}$).
- (b) #SAT \in PSPACE.

[40 points]

SOLUTION OUTLINE:

- (a) To show #SAT is coNP hard, note that $\varphi \in \overline{\text{SAT}} \Leftrightarrow (\varphi, 0) \in \#SAT$ as $\overline{\text{SAT}}$ is the set of all the formulae which are unsatisfiable i.e. have exactly 0 satisfying assignments. This shows that $\overline{\text{SAT}} \leq_p \#SAT$ which proves the claim.
- (b) We enumerate all possible assignments to the variables and for each assignment, we can check if it satisfies the formula. We also keep a count of the satisfying assignments. Since it takes n bits to store an assignment, n bits to store the counter (as there can be at most 2^n satisfying assignments), polynomial space to check if a given assignment satisfies the formula, the algorithm uses polynomial space overall.

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Whispering the Techniques of Language: An Emotional Journey through **Midterm 2 Stanford Cs Theory**

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