CSC 427: T程源所代码后域 CS编程辅导 1

Midteri III.

Wednesday, 31 March 2021 10:30-11:20 AM

There are 5 half-took for a total of 30 points.

As an imperiod today?s test, please turn your camera?s on. This would represent the structure of the other classes at UM. While structures the times, every student is responsible for insuring the integrity of the test, and must take all reasonable steps in support of insuring the integrity.

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1. Give a contract the strings over the alphabet $\{0,1\}$ that contract the strings over the alphabet $\{0,1\}$

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2. Give a function $\{a,b\}$ mmar for the language over the alphabet $\{a,b\}$ where $i,j \geq 0$.

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3. (a) C the operation (Union, Concatentation, etc.) is age class (Regular or CFL).



(b) Are all Regular Languages also Context Free Languages?

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(c) Is the intersection of a CFL with a Regular language necessarily

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4. Give a for the language over $\{a, b\}^*$ for strings that contain a's and an odd number of b's.



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5. Prove

 $a^+b^ic^i \cup b^*c^*$

for $i \ge 1$ First s

First signal and the straight forward manner.

Then take a step to distill the non-regularity and apply the pumping language to the derived problem.

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