

CIS 3362 Homework #5d: Find a Hash Function Match (Strong Collision Resistance)

Note: THIS IS AN INDIVIDUAL ASSIGNMENT!!! (40 pts)

Due: Monday, November 17th

A hash function is posted online in a file called hash.c. Your goal will be to come up with two **DIFFERENT** input strings x and y , such that $\text{hashFunction}(x)$ and $\text{hashFunction}(y)$ are equal. You may use any strategy you like **EXCEPT** getting an answer from someone else.

Your grade will mostly be based on the work you show and the strategy you used instead of whether or not you are successful.

Please turn in your assignment by hand. If you do find two strings, x and y , that satisfy the requirement above, please state those at the beginning of your write up.

After that, describe the strategy that you used to find a matching pair of unique strings x and y with $\text{hashFunction}(x) == \text{hashFunction}(y)$.

Attach any code you might have used in the process and refer to it as necessary.

If you didn't find a match, reflect on why you might not have. If you did, explain why you think you did.

For a bit of extra credit, you may find as many matching pairs as you'd like. If this number is more than 5, please email them to Sushant directly at sushant.kulkarni@knights.ucf.edu.