CIS 3362 Fall 24

Arup Guha HEC-240

OH - on webpg but for now
MW 9:30-10:30am
TR 3-4pm
W 1:30-2:30pm

Mondays - leave early for MathCounts (by 2pm)

Syllabus Notes

TAs: Jacob Gadberry, Tristen Hedrick, looking for one more.

Grading Homework 25% (1%, 3%, 4%, 4%, 4%, 4%, 5%)
Com Serv = 5% replace HT only
Quizzes 30% (10% each)
Final Exam 25%
Aids announced in class for quizzes, final exam

Grading is based on class avg, relative difficulty. Please look at my grading philosophy document online.

Systems for 1-3

① Shift cipher w/ key = 3

Plain	Cipher
A	D
B	E
⋮	
W	Z
X	A
Y	B
Z	C

$f_{+k}(x) = (x+k) \% 26$

② $A \leftrightarrow Z$
$B \leftrightarrow Y$
$C \leftrightarrow X$
⋮
etc.

③ $A \leftrightarrow B$
$C \leftrightarrow D$
⋮
$Y \leftrightarrow Z$

Letters as integers

A=0, B=1, C=2, ... Z=25

In code letters have Ascii values

'A' - 'A' = 0
'B' - 'A' = 1
etc.

c - 'A' → 0-25
c - 'a' → 0-25

C, C++, Java

Decrypt: $(c-k+26) \% 26$

because negative work the way we want

Python ord('A') = 65
chr(65) = 'A'

Hmk 1 IS FIN. AID ASSIGNMENT DUE FRI.

Write short programs to aid solving the problems