CS 5 fall 2025, hw4 guidelines...

Gold and Black

The hw we're grading (hw#4) :   Link to gold HW: Hw 4, gold and black

hw4pr0: *reading responses   (to the* Ariane5 *article)*

- Read the excerpt and questions at https://www.cs.hmc.edu/twiki/bin/view/CS5/Reading4
- Week 4 had two prompts - they should have addressed both (-1 or -2 if not)
    1. Which contributing factor within the bug's origins [[of the Ariane 5 rocket]] (there are many!) strikes you as the "most preventable" and why? Of course, this will be in hindsight….
    2. The investigative report that uncovered the bug stated that software "does not fail in the same sense as a mechanical system." Do you agree or disagree with this statement? Explain briefly.
    3. **Extra credit** of up to +5 points for each of up to 3 poster-presentations they reflected on (**so up to +15 points**) These should be 4-6 sentences each (scale the extra credit if it's shorter)
- Here is a very general page of scoring guidelines and possible comments

hw4pr1: *lab   (base conversions)*

- These lab problems will be handled by our lab-grading experts! (Thank you!)
    - ***Style points***
        - *take off* ***-5*** *points if there were lots of functions with* ***no docstring***
        - *take off* ***-2*** *points if there were 2+ functions with* ***no docstring***
    - ***Completeness points***
        - *-* ***full points*** *for getting to-and-through the two* `balancedTernary` *problems!*
        - *-* *proportional points* *for getting only partway through...*

hw4pr2: Gold+Black *Conversions and Compression*

For all of these assignments, things should already be auto-graded, but please
    - check them over / adjust grade based on style and effort
    - - ***Style points***
    -         - *take off* ***-6*** *points if there were lots of functions with* ***no docstring***
        - - *take off* ***-2*** *points if there were ~2 functions with* ***no docstring***
    - - ***Correctness points - already autograded***
    - - ***If they lost*** ***lots of*** ***points***
        - - check to see if there was a cascading error that did it (perhaps unrelated)
        - - if so, you can give BACK some points to reflect the effort involved
        - - this can be done for the whole assignment (give 20-30/60) or per-problem
        - - probably not beyond **40-45** or so points for non-working code
        - -- *all the more reason to give a score of* ***42****!*
    - give an encouraging comment   (and Zombie joke, or your other favorite joke/ASCII art...)

hw4pr3 Gold+Black (extra credit):   Image processing!

- Take a look at their images! Here's the hw page....
- No images? Download their notebook to see if they appear when opened locally...
- If they did **everything** in the extra credit specification, but only on the SPAM image (or any <u>one</u> image), give **+7.42**   These are
    - greyscale, binarize, flipVert, flipHoriz, mirrorVert, mirrorHoriz, scale
    - IF they *didn't include the images themselves*, **give +1 total**
- If they **<u>also</u>** added their own image **or** added their own image-processing algorithms (let's say for at least 2-3 outputs), **give +10**
- Partial E.C. points are available, perhaps **+4.2** if they tried _some_ image processing work (beyond the examples provided!)...

Thank you, everyone, for grading CS5!

Current week: *circuits!*
Next week: *assembly!*

Worth keeping on all grading pages: XKCD's 10,000 strip: http://xkcd.com/1053/

How to get to this page:
The CS5 site should be top link when Googling   **hmc cs5**
These notes are linked at the bottom of CS5's page as   **for grutors - guidelines**
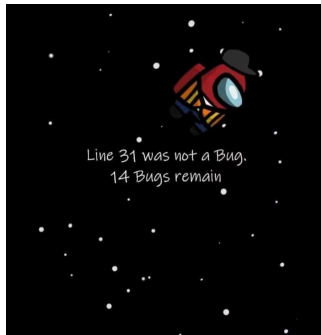Also, the submissions site is at   **cs.hmc.edu/submit**

[this week's optional comment theme: **Among Us jokes**]   Image meme:

Or, variations on...

- Your code was not the impostor.
- 1 impostor remains.
- (cs5 warning: Impostors may be disguised as a number in balancedTernary!)

Older things:

hw4pr2: `Black` *Conversions and Compression*
hw4pr3: `Black`   *Quadtrees!*

Black

Link to   BLACK!

GREEN graders: **editable guidelines**   **read-only full-course guidelines**

"Good" zombie jokes to use...

Actually, these are not good… there should be better ones, but perhaps it's a sign that there aren't!?

- Q: Why did the zombie ignore all his new Facebook friends?
- A: He was still DIGESTING all his old Facebook friends!
-
- Q: What did one zombie say to the other zombie while eating a comedian?
- A: This tastes FUNNY!
-
- Q: What do vegetarian zombies crave?
- A: GRAAAINS...more GRAAAAAAINS!