CS 5 Green Finale

Looking back! Evals, Ideas

Looking ahead? Options…

CS 5G Final lecture

now!

I’ll be back…

but that’s my line!

CS 5, on the verge of termination

CS 5G Final Projects

• Thu 2-4pm: Open lab to finish projects
• due Fri 5pm (Sat w/ Euro)
• office and grutoring hours through then…

CS 5G Final Exam

• this room, Wed 12/18, 2-5pm
• comprehensive
• 20-min practice problems on course website
• two 8.5x11 sheets front and back (that you prepare yourself) permitted
• come see me in office hours (or outside office hours)
sometimes an algorithm simply does not exist…

*more precisely:* every possible algorithm contains bugs!
Meaningful Functions?

Fortunately, nearly all meaningful functions are computable…

but this doesn’t mean we know how to compute them (yet)!
<table>
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<tr>
<th>Concepts</th>
<th>Applications</th>
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<tbody>
<tr>
<td>functions, variables</td>
<td>Picobot</td>
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<tr>
<td>conditionals, loops</td>
<td>Gene finding</td>
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<tr>
<td>recursion, use-it-or-lose-it</td>
<td>Read mapping</td>
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<tr>
<td>lists, dictionaries, trees</td>
<td>Alignment</td>
</tr>
<tr>
<td>assembly (Hmmm)</td>
<td>RNA Folding</td>
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<td>classes and objects</td>
<td>Phylogenetics</td>
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<td>computability</td>
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**Future CS?**

**Future Bio?**
Research Opportunities!

• Visit official websites
  – https://www.cs.hmc.edu/research/
  – https://www.hmc.edu/biology/biology-research/

• CS colloquium
  – first or second Thursday of spring semester
  – lightning talks from CS professors taking students next summer
  – several projects require only CS 5
  – learn about application process and non-Mudd opportunities
Thank you for joining CS5G!

Good luck on all finals (projects, exams, papers...)

Final Projects: due **Friday** 5pm…

Exam: **Wed, 12/18 @ 2pm**

Here in Shan B442