RE: Meeting about the Math Lab scheduler script

Reikes, Stephanie S <sreikes7@gatech.edu>
Wed 3/9/2022 5:25 PM

To: Schmidt, Maxie D <mschmidt34@gatech.edu>

Cc: Grodzinsky, Klara J <klara.grodzinsky@math.gatech.edu>

Hello,

Sorry for the delay! Twenty percent of my class needs make up exams this week, so it has been hectic.

I can see the code. Looks good!

Thanks,
Stephanie

From: Schmidt, Maxie D <mschmidt34@gatech.edu>
Sent: Tuesday, March 8, 2022 2:23 PM
To: Reikes, Stephanie S <sreikes7@gatech.edu>
Cc: Grodzinsky, Klara J <klara.grodzinsky@math.gatech.edu>
Subject: Re: Meeting about the Math Lab scheduler script

Stephanie,

You should now have ownership of the repository. I still have the code locally on my Mac. Please confirm that you can see the transferred code online.

Maxie

From: Reikes, Stephanie S <sreikes7@gatech.edu>
Sent: Sunday, March 6, 2022 9:35 AM
To: Schmidt, Maxie D <mschmidt34@gatech.edu>
Cc: Grodzinsky, Klara J <klara.grodzinsky@math.gatech.edu>
Subject: RE: Meeting about the Math Lab scheduler script

Hi,

- Yes, the table format is much better.
- Glad you noticed the hour issue when you were debugging. Perfect!
- Yes, you can transfer ownership to me. Good idea before you graduate!

Congrats on the article! That is a great accomplishment.

Best,
Stephanie

From: Schmidt, Maxie D <mschmidt34@gatech.edu>
Sent: Friday, March 4, 2022 11:49 AM
To: Reikes, Stephanie S <sreikes7@gatech.edu>
Cc: Grodzinsky, Klara J <klara.grodzinsky@math.gatech.edu>
Subject: Re: Meeting about the Math Lab scheduler script

Hi Stephanie,

Let me respond to things individually:

- With the changes pushed in the latest commit (you will still need to update the repo to

run it with "git pull" over ssh), I believe that the table format is now as you want it. Please see the screenshots to confirm.
- The variable number of hours for each TA is something I noticed and already fixed yesterday when I was debugging. Please update the version of the script you are running to see these changes.
- The randomization I had before made sense to me as a TA because there is always a mad rush for the best ML hours the second that email gets sent out. And, as I usually experienced, checking the email the next day results in me getting shelved that semester with crappy time slots. That being said, I understand why you do not want the randomization feature and the use case you have in mind is reasonable. The latest version of the script removes the randomization. I also used a Python OrderedDict() rather than the default dict([]) to keep the schedule the same as more requests come in. You should let the CS student you are mentoring know about that difference, as it is subtle.
- Do you want me to officially transfer ownership to you or Greg on the GT Enterprise GitHub? That way you will still have the code online when I graduate in August.

I appreciate you and Klara being careful about my hours. That said, as a native perfectionist, I am still willing to help out with the script if you need it, or if your CS student has questions. Send me an email anytime. You can also give my contact information to your student.

Maxie

From: Reikes, Stephanie S <sreikes7@gatech.edu>
Sent: Friday, March 4, 2022 8:39 AM
To: Schmidt, Maxie D <mschmidt34@gatech.edu>
Cc: Grodzinsky, Klara J <klara.grodzinsky@math.gatech.edu>
Subject: RE: Meeting about the Math Lab scheduler script

Hi Maxie,

As for the format, days of the week on top and time going down would be great (so switched). Also, each TA on a separate line. I don't like how it cuts off names. If you can fix that just a bit, and update any directions I need to know, that would be great!

Before you had jumped to code the HTML table, I wish you had told me. I believe last time I ran your script, it looked like it was automatically assigning TAs to 2 hours and not the number they actually need. Lastly, I know you were very proud of the fact that every time you run the code it gives a fresh schedule. However, that isn't so practical in actual use. Ideally, when it runs, it should be optimizing the best same schedule, that way I can run and build the schedule as more and more people put in their requests.

Anyways, it seems you are out of hours. I have access to the GitHub code, and I happen to be advising a CS student on his create-x project this semester. So I can continue to have the script worked on to fit my needs a bit better!

Thanks for your time this semester.

Stephanie

From: Schmidt, Maxie D <mschmidt34@gatech.edu>
Sent: Thursday, March 3, 2022 5:21 PM
To: Reikes, Stephanie S <sreikes7@gatech.edu>
Cc: Grodzinsky, Klara J <klara.grodzinsky@math.gatech.edu>
Subject: Re: Meeting about the Math Lab scheduler script

Stephanie and Klara,

I appreciate that you are both still willing to work with me to make up the missed hours from last semester. Just letting you know, so that we are on the same page, I spent about 3.5

hours writing the table generation code for the ML scheduler script, testing it, and doing some debugging of the issues I found. With the meeting I want to schedule next week, that should put me at approximately 4 hours of extra time on the project. I am happy to continue to work on these coding projects with you and Greg, but if it comes down to the nitty gritty, that's about two weeks of work at the agreed upon rate of 2/per week. N.b., I am not a slacker.

In other news, and since you are both math people that ought to appreciate cool things like this, the latest revision of my article on the Mertens function is pushed on arXiv and has been resubmitted for review in the Journal of Number Theory. I was fortunate enough to have met Jeff Lagarias (number theory superstar from UMich) and he took an interest in the article. After literally 10-12 hours worth of discussion about coherent organization, writing style, and choosing the right notation for posterity's sake in math papers, I am very happy with the new version:

https://arxiv.org/abs/2102.05842

> **Exact formulas for partial sums of the Möbius function expressed by partial sums of weighted Liouville functions**
>
> The Mertens function, $M(x) := [file://sum_%7bn]\\sum_{n \\leq x} μ(n)$, is defined as the summatory function of the classical Möbius function for $x \\geq 1$. The Dirichlet inverse function $g(n) := (ω+1)^{-1}(n)$ is defined in terms of the shifted strongly additive function $ω(n)$ that counts the number of distinct prime factors of n without multiplicity. Discrete convolutions of the partial sums of $g(n)$ with the prime counting function provide new exact formulas for $M(x)$ that are weighted sums of the Liouville function involving $lg(n)|$ for $n \\leq x$. We study the distribution of the unsigned function $|g(n)|$ through the auxiliary
>
> arxiv.org

Maxie

From: Schmidt, Maxie D <mschmidt34@gatech.edu>
Sent: Thursday, March 3, 2022 2:07 PM
To: Reikes, Stephanie S <sreikes7@gatech.edu>
Cc: Grodzinsky, Klara J <klara.grodzinsky@math.gatech.edu>
Subject: Re: Meeting about the Math Lab scheduler script

Stephanie,

Does this HTML table formatting look reasonably like something you can use?

Maxie

From: Schmidt, Maxie D
Sent: Thursday, March 3, 2022 11:36 AM
To: Reikes, Stephanie S <sreikes7@gatech.edu>
Cc: Grodzinsky, Klara J <klara.grodzinsky@math.gatech.edu>
Subject: Meeting about the Math Lab scheduler script

Stephanie,

Do you have time to meet to discuss the remaining items that we need to get done on the Math Lab scheduler script next week? I'm going to sit down and write the rest of the code to generate HTML formated tables so you can post the results more easily to the web. We still need to do sanity checks to test and verify reasonableness of the results it outputs. These changes will require you to go

through the installation instructions again to update with the new code I'm adding today. We can walk through that over BlueJeans again when we talk.

Maxie

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