



"WHAT DID YOU DO OVER READING WEEK?"

'CAUSE LET'S FACE IT, NO ONE ACTUALLY GOT ANY WORK DONE.

Six.

That's the number of people who came to the **mathNEWS** 136.4 Production Night, and that's *including* three editors. I mean, I know it's midterms season, but *seriously?* Only three non-editors showed up? What kind of "huge party" is that for me to lie to my high school friends about having thrown?

Well, whatever. Fact is, this **mathNEWS** is *paper-thin*¹, and for that, you have only yourselves to blame. *So start blaming yourselves, dammit.*

Now that said, what we *do* have is quite good. This week's featured professor is Dave Tompkins, who did **mathASKS** for us this week, so definitely check that out. We also have **midiNEWS** (which won Article of the Issue for being so *beautifully mathNEWS*), a list of compiler errors, a midterm season pick-me-up, the **gridWORD**, and the **haltingPRO**—

Oh. Right. Before I get lynched for making a bad puzzle *again*: the **haltingPROBLEM** in **mathNEWS** 136.2 was **not** unsolvable.

You just had to have the *correct* numbers... 😊

Look, unlike the **gridWORD**, we don't have some magical tool to make those things, okay? Mistakes get made when you're transcribing numbers manually at 4 in the morning. So this issue's **haltingPROBLEM**? The corrected version.

Yes, it's lazy, but I have three midterms to study for, and two assignments to do, so it's gonna have to do. And sorry to those who tried to solve the last and couldn't— that's totally my bad.

Enjoy the paper, and see you next issue.

George Lambrou
Editor, **mathNEWS**

1. Sue me—it's still probably more than *you* wrote for us this week.

THE DEPRESSIMIST	Cry.
THE EUROBEAT-'EM-UP	I hung out with my two-year old cousin. He's amazed by anyone who can jump, and it's awesome.
THEODORE BEAR	Who cares?
ME	Self loathing.
ZETHAR	I spent most of the time toiling on an age-old Zethar tradition: some neat project that the editors will want to take a life insurance policy out on. [Editor's Note: Oh fuck .]
SWINDLED	Stardew Valley, dawn 'til dusk.
GEORGE LAMBROU	Worked on my master plan to get school credit for mathNEWS . Because mark my words, I will get school credit for this.

ARTICLE OF THE ISSUE

This week's Article of the Issue goes to Vice Mitt for **midiNEWS**: **mathNEWS** Gone Musical.

Though I'm a proud member of the Faculty of Mathematics, there's a part of me that is an artist through and through. Vice Mitt's article spoke to me on a spiritual and emotional level, and the musical rendition of **mathNEWS** 136.1 was so supremely moving that it brought tears to my eyes withing seconds of the piece beginning to play. The fact that such a wondrous piece was created using the tools of mathematics and algorithms only makes it that much better.

Congratulations once again to Vice Mitt, don't forget to swing by the **mathNEWS** office to collect your prize.

swindLED
Editor, **mathNEWS**

It's scary how well that piano rendition of **mathNEWS** 136.1 suits us.

Seriously, it sounds like something that would play in a madhouse, and that's exactly what we are.

GEORGE LAMBROU, **mathNEWS** EDITOR FOR WINTER 2018
ALONG WITH ANGELA LE, ANUJ OPAL, AND ZISHEN QU

mathASKS 136.4

FEATURING PROF. DAVE TOMPKINS

ZETHAR: INSTEAD OF ASKING YOU ABOUT BOARD GAMES, WHAT IS AN INTERESTING FACT ABOUT YOUR RESEARCH THAT YOU COULD SHARE?

Well to be honest, my research has essentially been on “pause” since I’ve arrived at Waterloo. Some of the algorithms and tools I developed during my PhD have been used by researchers all over the world. The most interesting is that an open-source tool I developed was part of the AI software that ran the \$19 billion FCC spectrum auction (that’s **billion**, with a **b**). I, of course, received \$0.

THEODORE BEAR: HOW DOES HAVING SO MUCH REDDIT GOLD FEEL?

Do they take Reddit Gold at the C&D? My life has been so hectic that I haven’t even had a chance to go to look into what the gold is or check out the fancy exclusive reddit lounge... whatever that is. Seriously, if I could somehow use the gold for some altruistic purpose, please contact me and let me know. I also received a “Reddit Dildo” and some other weird items... I’ll leave it as an exercise for the reader to speculate how the dildo felt.

GENERIC AUTHOR: WHAT’S ON DJ DANCIN’ DAVE’S FAVOURITE PLAYLIST RIGHT NOW?

I just updated my music collection for the Math Semi-Formal, so I’ve been enjoying lots of new stuff. My favourite is a DJ subscription that’s called “Rhythm Radio” which is made up of popular dance songs and dance-y remixes of top 40 songs. I keep it on in the background when I work as it gives me energy (I recommend listening to songs in the 120 BPM range). The exact song I was listening to when I wrote this was “Show You Love” by KATO & Sigala ft. Hailee Steinfeld.

THE EUROBEAT-’EM-UP: WHAT DO YOU THINK THE CURRENT POST-SECONDARY EDUCATIONAL SYSTEM COULD IMPROVE UPON, AS A WHOLE?

This question is a bit too deep, so I’ll give a magical answer: I wish there was a post-secondary sorting hat that could magically measure your interests, your current aptitude and your future potential and then put you in the optimal university/college and program. I think a lot of people are in the wrong program for the wrong reasons, which includes those that are too focused on “getting a job” instead of what would be the best for them. While I’m at it, I wish we had a grading hat that could magically determine your grade at the end of the course.

NEED_TO_PEE: HOW MANY TIDE PODS® HAVE YOU CHOMPED ON IN THE LAST MONTH?

Tide Pods® are sooo yesterday’s gravy... I prefer the Cascade® Platinum™ ActionPacs™ (dishwasher pods)... they are the new hotness.

G-UNIT: WHAT WOULD YOU CHANGE ABOUT UW?

Oh, goodness... I don’t have the energy to give an appropriately well thought response to this question. I’m currently a bit hungry, so the first thing that popped into my mind was that I wish there were more inexpensive (and healthy) food choices in DC, so let’s go with that.

WALDO@<3.LE-GASP.CA: WILL YOUR NEWFOUND INTERNET FAME IMPACT YOUR INTERACTIONS WITH STUDENTS? WILL WE STILL SEE YOU AT GAMES NIGHT?

I think my 15 seconds of internet fame is over, and things are returning back to normal. I attend as many games nights as I can, which is not as many as I’d like. Being an adult sometimes sucks. I will attend the “Games Night with Profs” at the very least.

LIL J.J: CAN YOU GIVE ME A JOKE THAT I CAN SHARE AT THE NEXT PARTY I GO TO?

If you’re fortunate enough to get invited to parties, then please don’t be that person who’s telling a joke you prepared in advance. Spontaneous comedy is always much better. If you’re desperate and there’s a moment of awkward silence then pull out your phone and say: “OK Google. Tell me a joke”. You can have a competition to see who’s phone assistant is funnier.

SWINDLED: FOR THE SAKE OF ASKING THE OBVIOUS QUESTION, WHAT’S YOUR FAVOURITE BOARD GAME?

My #1 is hard to pin down: it depends on my mood and my opponents, but Concordia is definitely in my top 10... so I’ll choose that one because MathSoc doesn’t have it yet, and If I mention it here, maybe they will get it.

GEORGE LAMBROU: HOW MIGHT ONE USE A SECURITY EXPLOIT IN THE CS ADVISING SYSTEM TO GRANT ONESELF SCHOOL CREDIT FOR mathNEWS? I ASK THIS STRICTLY THEORETICALLY.

The CS advising system is actually “read only” with respect to Quest – so it’s actually impossible to get actual credit that way. You’d have to hack into Quest. Sorry.

[Editor’s Note: Hey, I needed something to do this summer!]

I wish we had a grading hat that could magically determine your grade at the end of the course.

PROF. DAVE TOMPKINS

profQUOTES 136.4

CLAS 325: DAVID PORRECA

- “ You can't order good health like pizza.
- “ Classical Studies is just one long commentary about Homer.
- “ I'll be bringing things next week if I can get my balls together... more appropriately my ducks in a row.

CS 200: BARBARA DALY

- “ My daughter doesn't listen to me. This is why I teach, so THANK-YOU!
- “ Take your Vitamin C. Grapefruit juice is great, but it does NOT count if you put vodka in it... I have to remind myself of that sometimes.
- “ I have 4 daughters. My eldest is in third year, and my youngest is 9. I have beer pong at one end and learning about beer pong at the other.
- “ It's ironic that we're in a school of Optometry but the clock is difficult to see.
- “ I'm very different on Twitter... I'm hilarious!
- “ 'Sexy' is my database word. You're going to be hearing it a lot.
- “ I'm thinking about writing the midterm while I'm at the beach.
- “ I have a degree in English Literature. That's basically a degree in bullshit, so I can tell when you do it.
- “ **Prof:** I'm going to have candy for everyone for the midterm.

Student: Everyone?

Prof: EVERYONE. Especially you!

CS 343: PETER BUHR

- “ From this day forward you will never feel safe in a bathroom again.
- “ In effect, this course is now over.
- “ Grover is my favourite character. I just love Grover.
- “ Don't laugh like that. We're professionals.
- “ This planet is suffering from buffer overload.
- “ If I was teaching the networks course, we'd be dropping packets.

CS 350: ALI MASHTIZADEH

- “ I'm expecting the midterm average to be around a 50. That's like, ideal.
- “ Who's started studying for the midterm already? [Three students raise their hands.]

JOB ID 12345: CODING ROCKSTAR/SOFTWARE NINJA

100%LEGIT.AI — DIVISIONAL OFFICE

JOB SUMMARY:

Do you talk in C++? Eat in only nibbles and bytes? Wear jewelry made from perl and Ruby? Get lit on recreational PHP? Perform blood sacrifices to Donald Knuth and Alan Turing?

If you answered yes to any of those questions then 100%legit.ai wants you! Located in the vibrant heart of downtown Scarborough, 100%legit.ai is a fast-paced, innovative startup looking to disrupt the modern software industry. We use bleeding edge technologies to provide our customers with the best product we can, such as machine learning, IoT, blockchain and big data. We work hard, play hard, and pride ourselves on being “2legit2quit.”

In order to be considered for this position please email a solution to at least two of the problems in the link below to recruiting.100%legit.ai.com.tgz.psd.biz.website before 5 P.M. EST on March 2nd. Please also include your full legal name, date of birth, field of study, nationality, Erdős number, net worth, mother's maiden name, and the last four digits of your SIN.

[http://wikipedia.org/wiki/](http://wikipedia.org/wiki/List_of_unsolved_problems_in_computer_science)

[List of unsolved problems in computer science](http://wikipedia.org/wiki/List_of_unsolved_problems_in_computer_science)

REQUIRED SKILLS:

We use a lot of different technologies and don't expect you to know all of them, here are just a few:

- Front end: Java/Javascript/Coffeescript, WebAssembly, HTML4. MVC frameworks such as Angular 3, REST or HTTP a plus.
- Server: Ruby, node.js, .NET 3.0, Lisp, PHP 4.
- Database: NoSQL, PostgreSQL, Excel 2003, MongoDB.
- Data: R, Tensorflow, Matlab, Fortran, MIT Scratch.
- Development experience on Linux, Mac, Windows ME and Haiku.
- Knowledge of micro-, nano-, pico- and femtoservice architecture.

- Experience writing scalable servers in Malbolge or Q# a plus.
- Experience with a mixed AWS/Azure stack a plus.
- Former internship experience at Google, Facebook or intelligence agency of a G20 country a plus.
- Knowledge of zero-day RSA/OpenSSL exploits a plus.

COMPENSATION AND BENEFITS INFORMATION:

- Ping pong table we picked up off the side of the road.
- Catered beer and pizza nights on alternate February 29^{ths}.
- Off-campus "training sessions" with various members of the executive team.
- 8-0.9% equity based on experience.
- Cash bonus for returning ~~slaves~~ interns.

Dave W.

MIDTERM REEEEEEEING

Where are my \$2.99 chicken nuggets from burger king?

Reeeeeeee.

As many of us have already experienced, the worst time for to be a first year is here: when you have stress over midterms and assignments while getting destroyed by the co-op process. I remember I failed almost every midterm in 1B, while only getting a few interviews.

As you read this piece, you'll probably have to drown the sorrows from your midterm results, while pulling your hair out because you haven't found a job yet. For those who aren't in this situation: go home and pat your self on the back, Mr/Mrs Chad.

But for those who had similar experience as me, listen closely. Remember that "Failure is merely a stepping stone to success," that bull-(retracted this part to avoid getting demonetized). Guys you don't win by losing, you win by winning. Duh! And in this context failure was merely the stepping stone: there are 2 months left, you haven't fail sh-(retracted to prevent getting demonetized). There's still the continuous round, and finals. That's your chance, and if you don't seize the day, you fuc-(retracted or i get demonetized, wait this is monetized first place?). So don't be like me and give up like a little wuss. Pull yourself together and git good.

But before that, let just reeeeeee for now.

Reeeeeeeeeeeeeeeee.

me

midNEWS: mathNEWS GONE MUSICAL!

Dear friends, do you love reading **mathNEWS**, and also struggle to find time to enjoy real music for the enlightened inner ear due to the amount of focus you must apply to truly appreciate the wordsmiths behind the articles at the most esteemed campus journal?

Well fear no more!

Researchers here at the University of Waterloo have come up with a novel way of converting any body of text into music! MIDI, short for Musical Instrument Digital Interface, is a way of storing musical information in the form of numbers. Since any character can be represented as numerical data, it was found to be fairly straightforward to convert text data into music using Python, where the even characters would represent a musical pitch and the odd characters would represent the length of the note.

```
from midiutil import MIDIFile
import random
f = open("mathnews.txt", 'r')
data = f.read()
x = 0
time = 0
mymidi = MIDIFile(1)
mymidi.addTempo(0, 0, 220)
for x in range(0, len(data) , 2):
    midiNote = 60
    midiLength = 1
    if chr(data[x]).isalpha():
        midiNote = ord(chr(data[x]).lower()) - 40
    try:
        midiLength = ord(chr(data[x + 1])) / 150
    except:
        midiLength = 4
    else:
        midiNote = int(ord(chr(data[x])) % 55) + 56
    try:
        midiLength = round(ord(chr(data[x + 1])) / 150, 2)
    except:
        midiLength = 4
    time = time + midiLength
    mymidi.addNote(0, 0, midiNote, time, midiLength, 100)

with open('out.mid', 'wb') as output_file:
    mymidi.writeFile(output_file)
```

But what does it **sound** like? It sounds like art. I've turned **mathNEWS** 136.1 into a musical masterpiece that you can listen to on Vocaroo: <https://vocaroo.com/i/s1MPRQtY2y9P>

"Art isn't supposed to be beautiful. Art is supposed to make you feel something."

Vice Mitt

INVESTIGATIVE JOURNALISM: WHAT'S THE POINT?

LIKE SERIOUSLY, WHAT'S THE POINT?

It's Theodore Bear, back again, not really knowing why I'm really here this time. But I'm doing the one thing I know I'm good at: slapping the words "investigative journalism" onto my incoherent ramblings to get free pizza. That being said, I got some good advice for you readers to get through midterm season.

I just don't know why I'm here anymore. I don't know why I still do this. I don't mean at **mathNEWS**, I mean here, attending university in Waterloo, going to classes everyday, attending office hours and doing assignments so that the number I get at the end of the term is a few digits higher than what it could have been, even though it doesn't really matter, as long as its more than a 50. I have spent six study terms working hard, pulling my hair out trying to finish assignments and get good marks, and for what?

What was the point?

Eventually, the human species will go extinct, all our accomplishments worn down by the slow passage of time. The Earth will die a fiery death, engulfed in flame when our sun goes Red Giant. And there's good possibility that we aren't going to survive to then. If our descendants do manage to make it off this planet, we probably won't. Maybe we'll colonize a few planets before we are consumed and destroyed by the Lovecraftian horrors that lie among the stars? And even then, when the universe undergoes its heat death, what lasting impression will we made?

Nothing.

There will be no one to remember us. We will all be forgotten. The legacy of humanity will be nothing more than a short, small, barely visible flash of light, quickly consumed by the empty dark. In the long run, nothing we do and nothing we accomplish will make any difference. So there is no point. None whatsoever.

And because nothing matters, you don't have to worry about anything. Nobody's going to remember you, which means nobody's going to remember whether or not you passed that midterm. Nobody's going to care whether you passed that course with a 78 or an 86. Nobody's going to care if you actually did your assignments.

When Cthulhu wakes from his slumber and destroys the world, people will be too busy dying and screaming to remember any of that.

These things are temporary. None of it will matter in the long run. All these things we're worrying about, tearing our hair out

and stressing over, they don't matter. They were never going to matter. They aren't going to make a difference, just like you!

So relax. Your marks, your friends, your university career, and your life; none of it matters. Enjoy yourself. Do some stuff you like and stop worrying so much about the midterm season. Even if you fail, there's still the final, and even you screw that up, a failure isn't the end of the world. And I mean, when the robot uprising happens, who do you think will be considered more of a threat: the people who failed Math, or the people who actually did well, and thus know how the robots work and how they can be destroyed?

The human race, and by extension, you, mean nothing in the universe. So stop caring so much about freaking midterms, because if you don't matter, they definitely don't.

That's it. I've investigated, and detailed the results of said investigation in a journalistic manner.

So there. Good luck on midterms, and even if you don't do well... well, you know. This has been Theodore Bear, and if everybody dies before the next issue gets released, rendering midterms even more pointless, it has been a pleasure writing for you.

Theodore Bear

N THINGS I SEARCHED WHILE MAKING A FAKE JOB DESCRIPTION

- List of tech buzzwords.
- [reddit.com/r/recruitinghell/](https://www.reddit.com/r/recruitinghell/)
- Unsolved computer science problems.
- Latest version of AngularJS.
- Wait, what the hell happened to Angular 3?
- Weird JavaScript frameworks.
- Has anyone made the PHP/PCP joke before?
- List of tech companies that are memes.
- Why did that last search bring up lists of IoT companies?
- Why did my list of tech jargon make Microsoft Word switch to French?
- List of SI prefixes.
- Holy shit why are nanoservices a real thing?

Dayve W.

Ceci n'est pas filler.

A SURREALIST blackBOX

N THINGS MY COMPILER TOLD ME WHILE I WAS DEBUGGING AN ASSIGNMENT

File "./asn.ml", line 1, character 0-1
Error (1): Syntax Error

File "./asn.ml", line 33, character 26-37
Error (82): This function is applied to too many arguments; maybe you forgot a ';'?

File "./asn.ml", line 1, character 2-3
Error (1): Syntax Error

File "./asn.ml", line 26, character 0-45
Error (59): "Substitution Failure is Not an Error" is an error.

File "./asn.ml", line 8, character 15-21
Error (37): Alias for Error 36

File "./asn.ml", line 33, character 38-50
Error (82): This function is applied to too many arguments; maybe you forgot a ';'?

File "./asn.ml", line 1-119
Error (1): Syntax Error (It's in there somewhere, trust me)

File "./asn.ml", line 76-77
Error (36): Alias for Error 37

File "./asn.ml", line 33, character 52-54
Error (82): This function is applied to too many arguments; maybe you forgot a ';'?

File "./asn.ml", line 46, character 1-376
Error (-1): I'm not compiling until you add some line breaks.

File "./asn.ml", line 89, character 14-76
Error (1337): Unbound type constructor qrewjojnsfvewqjurel-jkndfsblnjkfjudklvjbdfsnljkfwijodfgajkl

File "./asn.ml", line 151, character 45-50
Error (10): Why didn't you use MongoDB? Everyone knows MongoDB is web scale.

File "./asn.ml", line 33, character 26-37
Error (82): This function is applied to too many arguments; maybe you forgot a ';'?

File "./asn.ml" doesn't exist

BREAKING: ANYONE CAN WRITE FOR mathNEWS

If you haven't noticed by now, this is the end of the issue (save for the **lookAHEAD**), and since we're only 5 pages in, that means that this **mathNEWS** is a pretty damn short one.

Since we didn't even have enough content to fill this column, I thought I'd take this space to give our readers an important reminder: **you can write for us, you know.**

And that goes for *everybody*. Not just the people we *think* are reading this; *you, right now*, can type up some article about *whatever you want*, send it to us at mathNEWS@gmail.com, and not only will we *probably* print it, but if you come to Production Night, **we'll even give you pizza. For free.**

So yeah, whether you're a student, a professor, a member of the school's administration or staff, or even just someone who doesn't go here, but still likes to read **mathNEWS**!

Write for us. You probably won't regret it. I mean, no guarantees. But probably.

George Lambrou
Editor, **mathNEWS**

1. Recently, I learned that there are some eighth- and ninth-graders out there enjoying issues of **mathNEWS** brought home by their parents. Crazy, right? And hey, if you *are* one of those eighth-/ninth-graders: don't do drugs, stay in school, eat your vegetables, and most importantly, thanks for choosing us over our little brother, Imprint. I mean, it's not like it was a hard choice, but still.

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UW'S BASTION OF ERUDITE THOUGHT SINCE 1973

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gridCOMMENT 136.4

I hope you had a reasonable Reading Week and/or Chinese New Year. I am absolutely not ready for being back on track so this will be mercifully brief.

Last issue's **gridQUESTION** was "What is so special about the year of the hound?". Four correct submissions were received, and this was what they had to say about it:

- Jarry from the PMC Dream Team responded with "It is different from any other year"
- Miffed responded with "The Newgrounds music track of the same name" (You get free exposure, I guess)
- I DIDN'T MAKE HIM FOR YOU responded with a meme that the editors should have placed somewhere.
- DX responded with "Dogs are some of the most viable pets to have on this planet. As utilitarian as they are, they can understand human spirits & know to obey their master's with training. The Chinese regard it as an auspicious animal. If one comes to a house, it can mean fortune! For the dog's loyalty & comfortabilities this is why they are special & worth celebrating."

I have to say I like DX's response, mostly because it taught me something new (specifically, during the Chinese New Year if a stray dog runs into your house it is said to bring great fortune). Please go hound the editors for your prize at your leisure.

As always, submissions to this issue's grid should be made either physically in the **BLACK BOX** (found in the MC 3rd floor hallway outside the C&D) or electronically via email to mathNEWS@gmail.com. Submissions should include a name (if you want a prize) and optionally a pseudonym of which the submission will be credited to. In the event of a tie for the most correct submission, the tiebreaker shall be my favorite answer to this issue's **gridQUESTION**, "What is the worst thing that a professor could say while they are handing out midterms?". The submission deadline for this issue is 6PM on March 12th, 2018.

Zethar

PS: to the person who circled a specific clue: I think it is important that people know what the pejorative terms are. I think it is worse to use a term and not know it is demeaning than to know what it is.

ACROSS

- German article
- Stupid person
- $r = a + b \setminus \theta$
- Offshoot
- Inoperative
- Prudently
- Grappler
- Yoga instruction
- Nifty
- Music type
- Comes before a "catch"
- Baked dessert
- Sacrifice site
- The practice of female seclusion
- Pontificate
- Rice straw mat
- Lyra's brightest star
- Rejections
- Take a wrong turn
- Helpless?
- Hoodwink
- Unreturnable serve
- Well-known function
- With grace
- Sushi rice
- Flakier
- Marsh plant
- Places to buy chips
- Used spades
- Speed demon
- Music pulse
- The modern stable
- Golarion three-eyed jackal
- Forever, poetically
- Forever and a day
- Good name, for short

- Fought against the five-headed draconic goddess
- Dovetail
- Take advantage of.

DOWN

- Begins to appear
- Halte
- Besmirch
- It's a blast
- James Howlett
- Antediluvian
- Metallic jewellery
- Rise
- Unit of money in Recettear
- Marik's last name in Yu-Gi-Oh!
- Shuffle
- Unite
- Lixivium
- Buddhist heap
- Evinced elation
- Antagonist in Catherine
- Fawners
- Winged
- Labor
- Notice
- Some are green
- Shoe part
- Club official
- Lawmen
- Lost
- Plagiarizes
- Consideration
- We had a little one a while back
- We use many such symbols
- Kind of jacket

- Former head coach for the Washington Capitals
- Bonehead dressing?
- Stuff to be crunched
- Silent one
- Rare find

- ___'s Not Unix
- Volcanic fallout

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