

We've recently made an accessibility improvement to the community and therefore posts without any content are no longer allowed. Please use the spoiler feature or add a short message in the message body in order to submit your weekly challenge.



2022-05-26 Updates: Email: If you're not seeing emails be delivered from the Community, please check your spam and mark the Community emails as not junk. Thank you for your patience.



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Weekly Challenge

Solve the challenge, share your solution and summit the ranks of our Community!

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IDEAS WANTED

We're actively looking for ideas on how to improve Weekly Challenges and would love to hear what you think!

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SOLVED Challenge #135: Locker Problem



JoeM
Alteryx Alumni (Retired)

Thank you for participating in the Grand Prix challenges last week!

Next week's challenge will be posted during [@NicoleJohnson's](#) Inspire Europe Weekly Challenge (10:30AM on Wednesday 10/10)! Finally, those on GMT challengers will finally have first crack at the challenge. Unless [@patrick_digan](#) wakes up at 5:30AM Eastern.

Onto this week's challenge!

There are 1000 lockers in a high school with 1000 students. The problem begins with the first student opening all 1000 lockers; the second student closes lockers 2,4,6,8,10 and so on to locker 1000; the third student changes the state (opens lockers closed, closes lockers open) on lockers 3,6,9,12,15 and so on; the fourth student changes the state of lockers 4,8,12,16 and so on. This goes on until every student has had a turn.

When all 1,000 students have finished, which locker doors are open?

challenge_135_start_file.yxmd

Data Preparation Interface Intermediate Macros Preparation

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ACE NicoleJohnson
15 - Aurora

Back to school! My solution :)

▷ Spoiler

Cheers,
NJ

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2 LIKES

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bdaniels
8 - Asteroid

▷ Spoiler

Kind of messy

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 17 - Castor

I've got my alarm set for 5:30 am next wednesday!

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 Challenge135.yxmc 

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 **ACE ggruccio**
ACE Emeritus

I'm imagining this is a very loud exercise!

▷ Spoiler

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 **ACE danilang**
18 - Pollux



Fun challenge.

Ok, all you Math gurus. Can anyone explain why, iteratively applying the sieve of Eratosthenes, should generate that particular, very familiar, sequence of numbers? Is all of math beautifully connected at a level just below what common folk like me can see?

And what's up with Euler's Identity anyway

▷ Spoiler


Dan

 challenge_135_solution_dl.yxzp 



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 **GarthG**
7 - Meteor

Went macro-less this week!

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 **jasperlch**
12 - Quasar


Solution attached.

 challenge_135_JL.yxzp 

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KOBoyle
11 - Bolide

Solution attached.

» Spoiler

 challenge_135_solution_KO App.yxzp



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PhilipManning
15 - Aurora

» Spoiler

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