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!

SUBMIT FEEDBACK

Weekly Challenge

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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NicoleJohnson
15 - Aurora

Back to school! My solution :)

Spoiler

Cheers,
NJ

challenge_135_NicoleJohnson.yxmd

Share | 2 LIKES | Reply

bdaniels
8 - Asteroid

Spoiler

Kind of messy

challenge_135_start_file.yxmd

Share | 5 LIKES | Reply

17 - Castor

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

Spoiler

challenge_135_start_file.yxmd

Challenge135.yxmc

Share 6 LIKES Reply

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ggruccio
ACE Emeritus

I'm imagining this is a very loud exercise!

Spoiler

challenge_135_gg_finish.yxzp

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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

Share 1 LIKE Reply

GarthG
7 - Meteor

Went macro-less this week!

challenge_135_GG.yxmd

Share 4 LIKES Reply

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jasperlch
12 - Quasar

Solution attached.

challenge_135_JL.yxzp

Share 0 LIKES Reply

KOBoyle
11 - Bolide

Solution attached.

Spoiler

challenge_135_solution_KO App.yxzp

Share 0 LIKES Reply

PhilipMannering
15 - Aurora

Spoiler

Challenge 135 - Locker Problem.yxmd

Share 7 LIKES Reply