

< Weekly Challenge

Challenge #79: Find the Closest Prime Number



JoeM

Alteryx Alumni (Retired)

View last week's challenge $\underline{\mathsf{HERE}}.$

This week's challenge is simple to grasp, but more difficult to execute. This week, let's make an application that finds the closest prime number to a users input.



A prime number is a number that has two positive divisors - 1 and itself.

Without the use of a lookup table, please build an app that takes a user-entered number and returns the closest prime number to the entered number

Fun fact: this post went live on 07/31/2017 - a very prime day indeed!







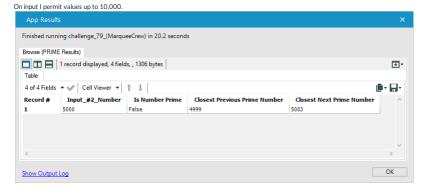


@JoeM.

I hope that I didn't make my life harder with this prime problem. I created an application that on output answers your question, plus it states:

Is the number itself PRIME?

What is the previous largest PRIME number?
What is the next largest PRIME number?



Cheers,

Mark

Alteryx ACE & Top Community Contributor

Chaos reigns within. Repent, reflect and restart. Order shall return.

Please <u>Subscribe</u> to my youTube channel.







Solution is attached. Not sure if I took the most efficient way for determining the closest prime number but it works!







Can we use R?







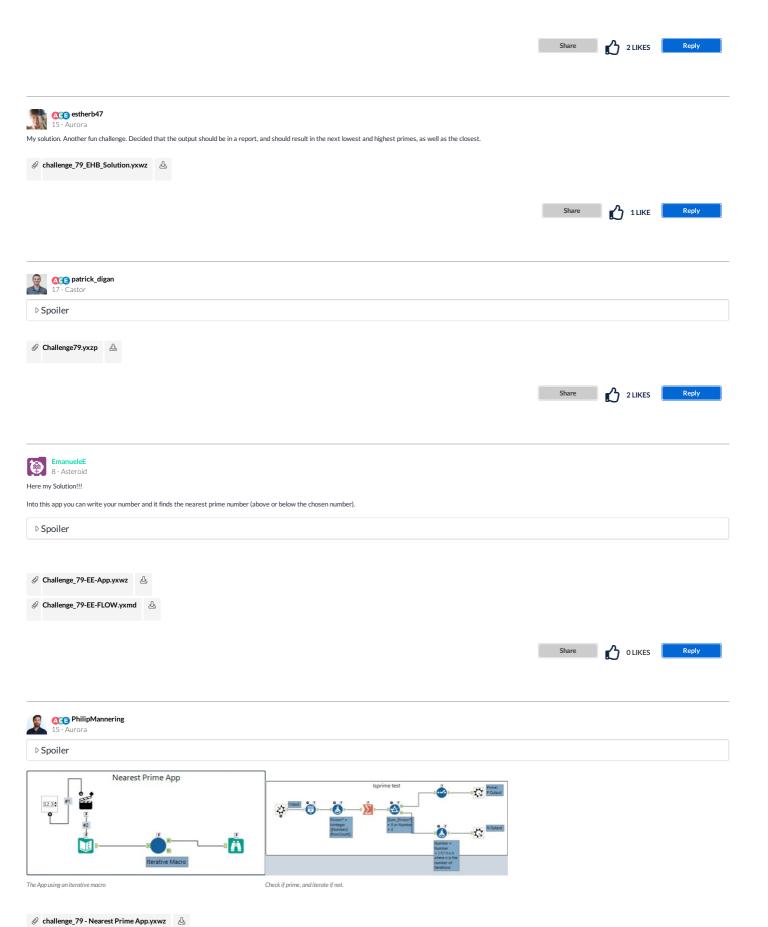


My solution attached! Definitely borrowed the concept of testing for closest prime in either direction from <u>amarqueeCrew</u> (thanks Mark!), but definitely a different path to the final solution. Added one more calculation for which number was technically "closer": Number itself, the next prime, the previous prime, or tied.

Spoiler

Happy Day o' Prime Numbers!





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D Spoiler

Thoroughly enjoyable.

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 $\label{eq:local_problem} Ah \ lovely \ \underline{@\ JoeM!} \ Spent \ the \ last \ week \ playing \ with \ iterative \ macros \ so \ seemed \ like \ an \ obvious \ choice \ when \ l \ saw \ the \ challenge. \ Solution \ below:$