

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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[Weekly Challenge](#)

## Challenge #270: Pony Permutations



A solution to last week's challenge can be found [here](#).

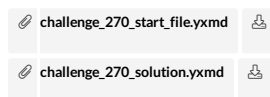
This week's challenge was submitted by [@mst3k](#) - Thank you for your submission!

Later this week, the [Belmont Stakes](#) will be held in New York. If you are unfamiliar, this is a famous horse race which serves as the third race in the [Triple Crown](#) (the Kentucky Derby and Preakness are the other two legs). While there will not be a triple crown winner this year (since different horses won the previous two legs), we can still have some fun analyzing some race possibilities!

A race is being held between 4 horses. Create an output of every possible combination of race finishes. No horse should be able to finish in more than 1 place, but be warned there are two "different" mustangs named Sally in this race!  
Extra Credit: If there are 5 horses instead of 4, how many possible outcomes are there? Can that number be generalized if there are n number of horses?



Source: [https://en.wikipedia.org/wiki/Belmont\\_Stakes](https://en.wikipedia.org/wiki/Belmont_Stakes)



Basic Data Analysis Join Preparation Transform

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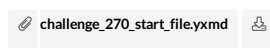


**ACE** patrick\_digan

17 - Castor

[@estherb47](#) Does this bring back nightmares of Born to Solve Nashville?

▷ Spoiler



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**ACE** AkimasaKajitani

15 - Aurora

My solution.

▷ Spoiler

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[Share](#) 3 LIKES[Reply](#)**PhilipManning**  
15 - Aurora


My solution attached,

[▷ Spoiler](#)

The cheat dynamic solution

[▷ Spoiler](#) [Challenge 270 - Pony Permutations.yxmd](#)[Share](#) 4 LIKES[Reply](#)**patrick\_digan**  
17 - Castor


And to solve the advanced part/make it more dynamic without macros, we can simulate enough horse races to get all the possible outcomes

[▷ Spoiler](#) [challenge\\_270\\_start\\_file.yxmd](#)[Share](#) 2 LIKES[Reply](#)**DeanWest**  
9 - Comet


Off to the races! 🐎

[▷ Spoiler](#) [challenge\\_270\\_solution\\_DeanWest.yxmd](#)[Share](#) 0 LIKES[Reply](#)**AngelosPachis**  
16 - Nebula

Append fields tool to the rescue for this week's challenge!

[▷ Spoiler](#) [challenge\\_270\\_solved\\_AP.yxmd](#)[Share](#) 1 LIKE[Reply](#)**RolandSchubert**  
16 - Nebula

My solution

[▷ Spoiler](#) [challenge\\_270\\_solution\\_rsc.yxmd](#)



fun fact: race horse names cannot be reused until 5 years after the horse has stopped racing or breeding

» Spoiler

I believe the number of solutions for this problem is just a simple factorial? So it should generalize to any number of starters.



My solution :

» Spoiler

