In Exercise 7,

I could solve 1-7 queens but when the problem size is larger or equal to 8, my computer tells me "Stack Overflow. Infinite recursion?"

What does this mean? My computer is not powerful enough to calculate it OR there is something wrong with my implementation?

Subject: Re: Exercise 7
Posted by jarobinson3 on Mon, 10 Oct 2016 03:06:23 GMT

It really depends on how you implemented your solution. You should be able to implement it with a stack depth of about 8.

Subject: Re: Exercise 7
Posted by aschey on Tue, 18 Oct 2016 04:57:19 GMT

Try getting the latest version of Scam if you haven't already. I had the same issue and that fixed it for me.

Subject: Re: Exercise 7
Posted by lusth on Thu, 20 Oct 2016 21:08:47 GMT

It took me 53 garbage collections to do an 8x8 board.

Subject: Re: Exercise 7
Posted by xinzhao on Fri, 21 Oct 2016 03:35:41 GMT

This works! Thank you!
At first, I cannot get a result and it told me it is an infinite loop. Then I updated the scam and now it took me 20 garbage collections to do a 8*8 board. 8)

^ 20! You're better than me!

The instructions say "Note that the row numbers and column numbers start with 0 (unlike the textbook version)." Does this mean our code MUST use 0 based calculations or can we just output the information in 0 based notation?

I also had to get the latest version of scam for my 8x8 board to not crash - It took me 27 garbage collections to do an 8x8 board.

Mine still crashes on 8x8 infinite loop?
Even after the update

The output must conform to the zero-based requirement.
I won't be testing on an eight by eight board (or higher).

Does our queens function need to be identical to the one in the book? After writing the safe function, I realized that the variable k being passed in is never being used. I was just wondering if I could adjust the code so it isn't passing in unnecessary arguments without being deducted points?

As long as your solution uses the conventional interface approach (and is functional), then you can vary (slightly) from the book's template.

To clarify when we return an empty list in the event there are no solutions, it should return ( ) and the length of that will be 1?

yes, the list containing nil should be returned to display the empty list.