COP 3502 Summer 20 Section 2 Recitation Program #2

Counting Stars

For each recitation program, in order to get full credit, you must submit your solution to open.kattis.com and get your solution accepted on all test cases. In addition, each one will have some separate requirements to submit. When submitting your work to Webcourses, please carefully read the corresponding directions document before submitting all of your files.

NOTE: Over the course of the semester, you must submit TWO out of the four recitation programs. It is expected that while you are in recitation, you start working on each of them. But, afterwards, you can choose which two to finish up.

What This Program Is Testing

Though there are other ways to solve this problem, I request that you solve it using the floodfill method taught in lecture. You should have a function that is recursive that takes in input grid and an used array (or if you prefer, just the input grid, where you mark used squares in a safe manner).

Extra Item To Submit

Please create your own test cases in addition to the sample, along with a document that describes what each test case is testing. Please include a minimum of five test cases. The cases do NOT have to be typed in by hand, but if you write a program to generate cases, you must include the text of your program in the document that describes the cases.

What to Submit

Please submit the following:

1) Your source file, countingstars.c.

2) A screenshot of your solution's accepted status on Kattis.

3) A document where you explain what each of your at least five test cases is testing, as well as copied text of any code you used to generate those cases. (Note: if you write code to generate test cases, you can write THAT code in any language of your choice.) This file should be .txt, .doc or .docx.

4) A file called countingstars.in, which contains the test cases you created, that correspond to the cases described in your testing document.