

assignment3.py - Untitled (Workspace) - Visual Studio Code

assignment3.py X

Fall 22 > EECS 210 - Discrete Structures > Assignments > ChaseBurkdoll\_Assignment3 > assignment3.py > prob\_four

36 newSet = {(c,b) for (a,b) in r for (c,d) in r if a == d} #relation composition to create a new set by looping through the ordered pairs

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER

False is not  
4e. Show whether R is transitive or not.  
False is not  
PS C:\Users\chase\OneDrive\Documents\Front End\javascript-basic-projects-master\javascript-basic-projects-master> c;; cd 'c:\Users\chase\OneDrive\Documents\Front End\javascript-basic-projects-master\javascript-basic-projects-master'; & 'C:\Users\chase\AppData\Local\Microsoft\WindowsApps\python3.9.exe' 'c:\Users\chase\.vscode\extensions\ms-python.python-2022.14.0\pythonFiles\lib\python\debugpy\adapter\..\..\debugpy\launcher' '56805' '--' 'c:\Users\chase\OneDrive\Documents\Fall 22\EECS 210 - Discrete Structures\Assignments\ChaseBurkdoll\_Assignment3\assignment3.py'  
1a. Union of R1 and R2  
{(3, 3), (1, 2), (2, 2), (1, 1), (1, 3), (1, 4)}  
1b. Intersection of R1 and R2  
{(1, 1)}  
1c. Difference R1 - R2  
{(3, 3), (2, 2)}  
1d. Difference R2 - R1  
{(1, 2), (1, 3), (1, 4)}  
2. S = R  
{(2, 1), (3, 1), (1, 1), (3, 0), (2, 2), (1, 0)}  
3. R^2  
{(2, 4), (2, 1), (3, 4), (3, 1), (1, 1), (1, 4)}  
4a. Show R as a set of ordered pairs  
{(5, -5), (-10, 10), (-3, 3), (-4, 4), (-1, 1), (3, -3), (4, -4), (10, -10), (-6, 6), (-5, 5), (2, -2), (-7, 7), (8, -8), (9, -9), (0, 0), (1, -1), (6, -6), (7, -7), (-9, 9), (-8, 8), (-2, 2)}  
4b. Show whether R is reflexive or not.  
not reflexive because 5 does not equal -5  
4c. Show whether R is symmetric or not.  
True is symmetric  
4d. Show whether R is antisymmetric or not.  
False is not  
4e. Show whether R is transitive or not.  
False is not  
PS C:\Users\chase\OneDrive\Documents\Front End\javascript-basic-projects-master\javascript-basic-projects-master>

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