REFLEXIVE

Show the code works for the relation {(1,1), (4,4), (2,2), (3,3)} on the set {1,2,3,4}.

1a. R = {(4, 4), (1, 1), (3, 3), (2, 2)}

1b. R is reflexive

1c. N/A

Show the code works for the relation {(a,a), (c,c)} on the set {a,b,c,d}.

1a. R = {('c', 'c'), ('a', 'a')}

1b. R is not reflexive

1c. {('b', 'b'), ('a', 'a'), ('c', 'c'), ('d', 'd')}

SYMMETRIC

Show the code works for the relation {(1,2), (4,4), (2,1), (3,3)} on the set {1,2,3,4}.

2a. R = {(4, 4), (1, 2), (3, 3), (2, 1)}

2b. R is symmetric

2c. N/A

Show the code works for the relation {(1,2), (3,3)} on the set {1,2,3,4}

2a. R = {(1, 2), (3, 3)}

2b. R is not symmetric

2c. {(3, 3), (1, 2), (2, 1)}

TRANSITIVE

Show the code works for the relation {(a,b), (d,d), (b,c), (a,c)} on the set {a,b,c,d}.

3a. R = {('a', 'c'), ('b', 'c'), ('d', 'd'), ('a', 'b')}

3b. R is transitive

3c. N/A

Show the code works for the relation {(1,1),(1,3),(2,2),(3,1),(3,2)} on the set {1,2,3}.

3a. R = {(2, 2), (3, 1), (1, 1), (1, 3), (3, 2)}

3b. R is not transitive

3c. {(1, 2), (3, 3), (2, 2), (3, 1), (1, 1), (1, 3), (3, 2)}

EQUIVALENCE

Show the code works for the relation {(1,1),(2,2),(2,3)} on the set {1,2,3}.

4a. R = {(2, 3), (1, 1), (2, 2)}

4b. R is not an equivalence relation

4c. R is not reflexive

4c. R is not symmetric

Show the code works for the relation {(a,a),(b,b),(c,c),(b,c),(c,b)} on the set {a,b,c}.

4a. R = {('b', 'b'), ('b', 'c'), ('a', 'a'), ('c', 'b'), ('c', 'c')}

4b. R is an equivalence relation

4c. N/A

POSET

Show the code works for the relation {(1,1), (1,2), (2,2), (3,3), (4,1), (4,2), (4,4)} on the set {1, 2, 3, 4}.

5a. S = {1, 2, 3, 4}

5b. R = {(4, 4), (1, 2), (3, 3), (2, 2), (1, 1), (4, 1), (4, 2)}

5b. (S,R) is a poset

5c. N/A

Show the code works for the relation {(0, 0), (0, 1), (0, 2), (0, 3), (1, 0), (1, 1), (1, 2), (1, 3), (2, 0), (2, 2), (3, 3)} on the set {0, 1, 2, 3}.

5a. S = {0, 1, 2, 3}

5b. R = {(0, 1), (1, 2), (0, 0), (1, 1), (0, 3), (2, 0), (0, 2), (3, 3), (2, 2), (1, 0), (1, 3)}

5b. (S,R) is not a poset

5c. (S,R) is not antisymmetric

5c. (S,R) is not transitive

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