Jacobi Iteration Method

Algorithm

1. Start

2. Arrange given system of linear equations in

diagonally dominant form

3. Read tolerable error (e)

4. Convert the first equation in terms of first variable, second equation in terms of second variable and so on.

5. Set initial guesses for x0, y0, z0 and so on

6. Substitute value of x0, y0, z0 ... from step 5 in equation obtained in step 4 to calculate new values x1, y1, z1 and so on

7. If| x0 - x1| > e and | y0 - y1| > e and | z0 - z1| > e and so on then goto step 9

8. Set x0=x1, y0=y1, z0=z1 and so on and goto step 6

9. Print value of x1, y1, z1 and so on

10. Stop