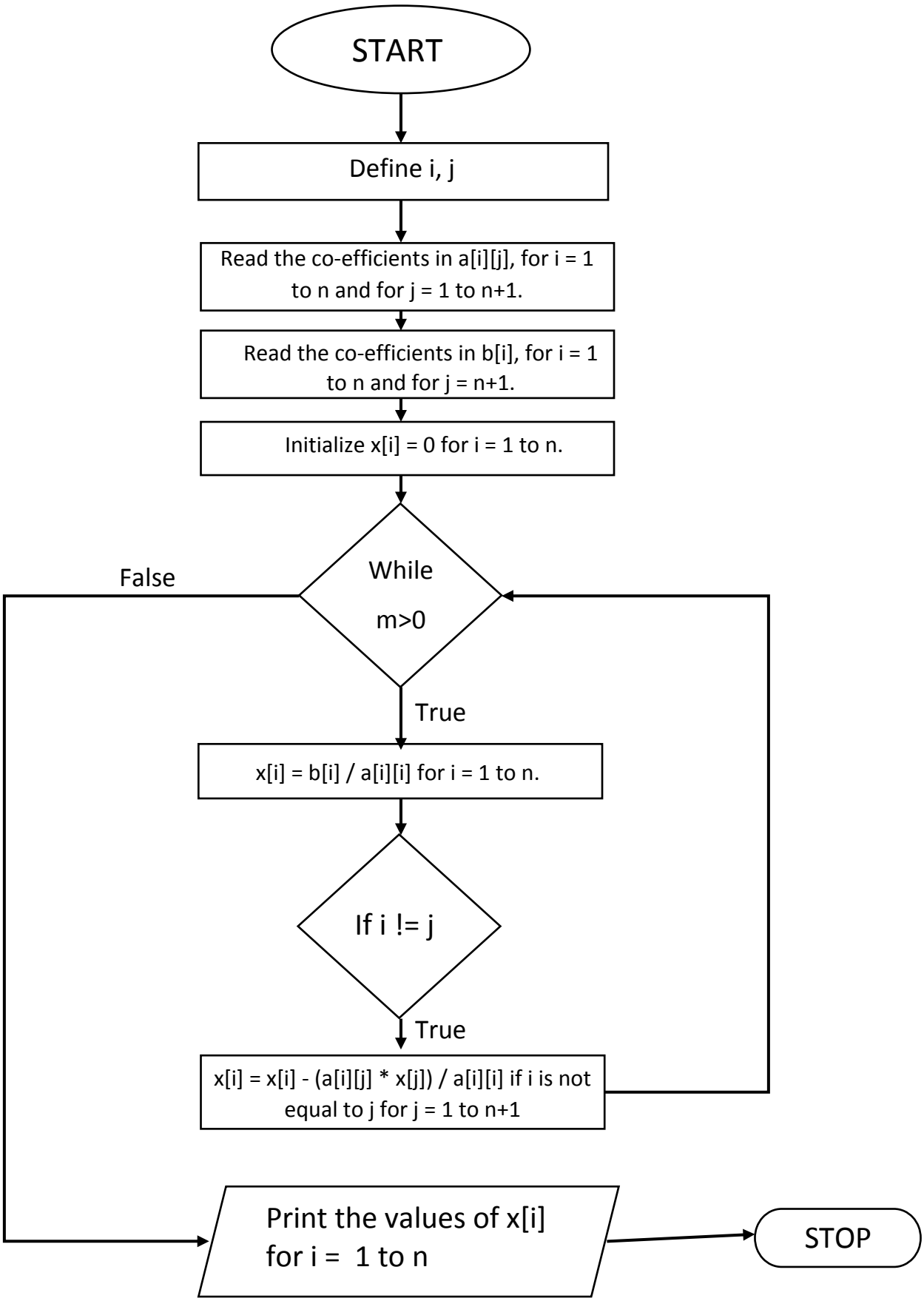
Algorithm

1. Define i, j as integers.
2. Read the co-efficients in a[i][j], for i = 1 to n and for j = 1 to n+1.
3. Read the co-efficients in b[i], for i = 1 to n and for j = n+1.
4. Initialize x[i] = 0 for i = 1 to n.
5. Take the number of iterations, m, from the user.
6. Set x[i] = b[i] / a[i][i] for i = 1 to n. In the same loop add another loop and set x[i] = x[i] - (a[i][j] * x[j]) / a[i][i] if i is not equal to j for j = 1 to n+1. Repeat this m times.
7. Finally print the values of x[i] for i = 1 to n.

Flowchart


START
Define i, j
Read the co-efficients in a[i][j], for i = 1 to n and for j = 1 to n+1.
Read the co-efficients in b[i], for i = 1 to n and for j = n+1.
Initialize x[i] = 0 for i = 1 to n.
While
m>0
False
True
x[i] = b[i] / a[i][i] for i = 1 to n.
If i != j
True
x[i] = x[i] - (a[i][j] * x[j]) / a[i][i] if i is not equal to j for j = 1 to n+1
Print the values of x[i] for i = 1 to n
STOP