

## Algorithm

Aim: To sort each row of a Matrix using any standard sorting method.

1). Start

2). main() – a). Input two numbers M and N as the number of rows and columns for the matrix.

b). if(M>2 && N>2 && M<10 && N<10)

```
{
    int A[][] = new int[M][N];

    System.out.println("\nEnter elements of matrix");
    for(int i=0;i<M;i++)
    {
        for(int j=0;j<N;j++)
        {
            A[i][j] = br.nextInt();
        }
    }

    System.out.println("\nOriginal matrix");
    for(int i=0;i<M;i++)
    {
        for(int j=0;j<N;j++)
        {
            System.out.print(A[i][j]+" ");
        }
        System.out.println();
    }

    for(int i=0;i<M;i++)
    {
        for(int j1=0;j1<N;j1++)
        {
            for(int j=0;j<(N-1);j++)
```

```

        {
            if(A[i][j]>A[i][j+1])
            {
                int t=A[i][j];
                A[i][j]=A[i][j+1];
                A[i][j+1]=t;
            }
        }
    }
}

```

```

System.out.println("\nMATRIX AFTER SORTING ROWS");
for(int i=0 ; i<M ; i++)
{
    for(int j=0 ; j<N ; j++)
    {
        System.out.print(A[i][j]+" ");
    }
    System.out.println();
}
}

```

c). else

```

{
    System.out.println("MATRIX SIZE OUT OF RANGE");
}

```

3). Stop