

Q. Apply median Filtering on image below. (For center pixel)

$$f(x, y) = \begin{array}{|c|c|c|} \hline 0 & 2 & 1 \\ \hline 1 & 100 & 2 \\ \hline 2 & 0 & 1 \\ \hline \end{array}$$

Step 1

Arrange values in ascending order.

0, 0, 1, 1, 1, 2, 2, 2, 100

Step 2

Find median value. So median is 1.

Step 3

Replace center pixel with 1. (here we performed operation on 100 as $f(x, y)$)

0	2	1
1	1	2
2	0	1