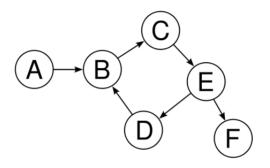Let's relook at it quickly.

Run BFS starting at vertex A.
Run BFS again starting at vertex C.
Run BFS once more starting at vertex F.
What is the difference in output in changing the source?