

Flow Chart - (Breadth first Search)

START

Call function BSA(i)

initialization:- for $j: 1$ to n
 $visited[j] = 0$; $Q = []$

start the exploring at i
 $visited[i] = 1$; $append(Q, i)$

while
 $len(Q) \neq 0$?

return from
function

Print (traversed
vertex)

END

$j = dequeue(Q)$

for each (j, k) in E
run the loop

$visited[k] = 0$?

$visited[k] = 1$;
 $append(Q, k)$

$i \rightarrow$ starting
vertex

$n \rightarrow$ no. of
vertex.

$Q \rightarrow$ queue
data
structure

Append \rightarrow enqueue
function:
if will append
the visited vertex
in the queue.

