

An Approach using BFS

Algorithm Find the Minimum Number of Jumps to Reach the end of Array

Ensure: One Based Indexing for the array

```
1: function Min_Jumps_To_Reach_End(arr)
2:   for  $i = 1 : arr.len$  do
3:      $level[i] \leftarrow \infty$ 
4:   queue.push(1)
5:    $level[1] \leftarrow 0$ 
6:    $max\_reached \leftarrow 1$   $\triangleright max\_reached$  is the largest vertex in the queue
7:   while queue is not empty, do
8:      $current \leftarrow queue.front$ 
9:     queue.pop
10:     $next \leftarrow max\_reached + 1$ 
11:    while  $next \leq arr.len$  and  $next \leq current + a[current]$  do
12:      queue.push(next)
13:       $level[next] \leftarrow level[current] + 1$ 
14:       $max\_reached \leftarrow next$ 
15:       $next \leftarrow next + 1$ 

16:   if  $level[arr.len]$  is  $\infty$  then
17:     Not Possible
18:   else
19:     return  $level[arr.len]$ 
```
