Source Code:

```
graph = {
'A':[('B',12), ('C',4)],
'B':[('D',7), ('E',3)],
'C':[('F',8), ('G',2)],
'D':[],
'E':[('H',0)],
'F':[('H',0)],
'G':[('H',0)]
}

def bfs(start, target, graph, queue=[], visited=[]):
  if start not in visited:
      print(start,end=" ")
      visited.append(start)
     queue=queue+[x for x in graph[start] if x[0][0] not in
visited]
  queue.sort(key=lambda x:x[1])

if queue[0][0]==target:
      print(queue[0][0])
  else:
      processing=queue[0]
      queue.remove(processing)
      bfs(processing[0], target, graph, queue, visited)
print("The path of traversal is:")
bfs('A', 'H', graph)
```