

```

1  main():
2      initialize parent array, mark all as unvisited, make discovery/earliest inf,
3      bridgeFind(0, u)
4
5
6  bridgeFind(clock, v):
7      marked[v] = True
8      discovery[v] = clock
9      earliest[v] = clock
10     clock = clock++
11     for u in v's adjacent vertices
12         if marked[u] == False:
13             parent[u] = v
14             bridgeFind(clock, u)
15             earliest[u] = min(earliest[v], earliest[u])
16             //if the node with min discovery time from u is lower than v we have a bridge
17             if(earliest[u] > discovery[v]):
18                 return (u,v)
19         else if parent[u] != v:
20             earliest[v] = min(earliest[v], discovery[u])

```