

# Unit tests of the python codes

## Adjacency matrix to Adjacency list test:

```
main.py
29
30     return adj_list
31
32
33
34 def main():
35     adj_mat_test = [[0, 1, 0, 1, 0, 0],
36                     [0, 0, 1, 0, 0, 0],
37                     [1, 0, 0, 0, 0, 0],
38                     [0, 0, 0, 0, 1, 0],
39                     [0, 0, 0, 1, 0, 0],
40                     [0, 0, 0, 0, 0, 0]]
41
42
43
44     adj_list_test = mat_to_list(adj_mat_test)
45     for i in adj_list_test:
46         for j in i:
47             print(j, end = " ")
48         print()
49
```

input

```
1 3
2
0
4
3

...Program finished with exit code 0
Press ENTER to exit console.
```

## Test the reachable function:

OnlineGDB beta

online compiler and debugger for c/c++

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main.py

```
35 adj_mat_test = [[0, 1, 0, 1, 0, 0],
36                 [0, 0, 1, 0, 0, 0],
37                 [1, 0, 0, 0, 0, 0],
38                 [0, 0, 0, 0, 1, 0],
39                 [0, 0, 0, 1, 0, 0],
40                 [0, 0, 0, 0, 0, 0]]
41
42
43
44 adj_list_test = mat_to_list(adj_mat_test)
45 for i in adj_list_test:
46     for j in i:
47         print(j , end = " ")
48     print()
49
50
51 adj_list_test = [[1, 3], [2], [0], [4], [3], []]
52
53 reachable_set = reachable(adj_list_test,0)
54 print("now for a start node of 0")
55 for i in reachable_set:
56     print(i , end = " ")
57
58
```

Language Python 3

Run Debug Stop Share Save Beautify

input

```
1 3
2
0
4
3

now for a start node of 0
0 1 2 3 4

...Program finished with exit code 0
```

```
35 adj_mat_test = [[0, 1, 0, 1, 0, 0],
36                 [0, 0, 1, 0, 0, 0],
37                 [1, 0, 0, 0, 0, 0],
38                 [0, 0, 0, 0, 1, 0],
39                 [0, 0, 0, 1, 0, 0],
40                 [0, 0, 0, 0, 0, 0]]
41
42
43
44 adj_list_test = mat_to_list(adj_mat_test)
45 for i in adj_list_test:
46     for j in i:
47         print(j , end = " ")
48     print()
49
50
51 adj_list_test = [[1, 3], [2], [0], [4], [3], []]
52
53 reachable_set = reachable(adj_list_test,3)
54 print("now for a start node of 3")
55 for i in reachable_set:
56     print(i , end = " ")
57
58
```

input

```
1 3
2
0
4
3

now for a start node of 3
3 4

...Program finished with exit code 0
Press ENTER to exit console.
```