# Test Cases for Programming Assignment #3

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Bayram Kuliyev COMMUNITY TA · 3 days ago

**Just to be sure that you are reading the right input file:**

```
MD5 (kargerMinCut.txt) = d81819849ab16ea07f97e4814a7f76d0
```

Test cases from the previous sessions (thanks to Gregor Ulm, CTA from previous sessions)

```
3--4-----5--6
|\/|     |\/|
|/\|     |/\|
2--1-----7--8
```

1 2 3 4 7
2 1 3 4
3 1 2 4
4 1 2 3 5
5 4 6 7 8
6 5 7 8
7 1 5 6 8
8 5 6 7

expected result: 2
cuts are [(1,7), (4,5)]

(randomly permuting the adjacency list, should get same result):
1 4 2 7 3
2 4 1 3
3 1 2 4
4 5 1 2 3
5 8 7 6 4
6 8 5 7

7 6 8 5 1
8 7 6 5

expected result: 2
cuts are [(1,7), (4,5)]

```
3--4-----5--6
|\/|     |\/|
|/\|     |/\|
2--1     7--8
```

1 2 3 4
2 1 3 4
3 1 2 4
4 1 2 3 5
5 4 6 7 8
6 5 7 8
7 5 6 8
8 5 6 7

expected result: 1
cut is [(4,5)]

(randomly permuting the adjacency list, should get same result):
1 3 4 2
2 1 4 3
3 1 2 4
4 5 3 2 1
5 4 8 6 7
6 8 7 5
7 5 8 6
8 5 7 6

expected result: 1
cut is [(4,5)]

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2) Vikram Jaiswal

1 19 15 36 23 18 39

2 36 23 4 18 26 9
3 35 6 16 11
4 23 2 18 24
5 14 8 29 21
6 34 35 3 16
7 30 33 38 28
8 12 14 5 29 31
9 39 13 20 10 17 2
10 9 20 12 14 29
11 3 16 30 33 26
12 20 10 14 8
13 24 39 9 20
14 10 12 8 5
15 26 19 1 36
16 6 3 11 30 17 35 32
17 38 28 32 40 9 16
18 2 4 24 39 1
19 27 26 15 1
20 13 9 10 12
21 5 29 25 37
22 32 40 34 35
23 1 36 2 4
24 4 18 39 13
25 29 21 37 31
26 31 27 19 15 11 2
27 37 31 26 19 29
28 7 38 17 32
29 8 5 21 25 10 27
30 16 11 33 7 37
31 25 37 27 26 8
32 28 17 40 22 16
33 11 30 7 38
34 40 22 35 6
35 22 34 6 3 16
36 15 1 23 2
37 21 25 31 27 30
38 33 7 28 17 40
39 18 24 13 9 1
40 17 32 22 34 38

expected result: 3

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3) 涂颖

1 2 3 4 5
2 3 4 1
3 4 1 2
4 1 2 3 8
5 1 6 7 8
6 7 8 5
7 8 5 6
8 4 6 5 7
mincut=2

1 · flag

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Fred Dupont · 3 days ago

```
--1-2----5-7--
| |X|    |X| |
| 3-4----6-8 |
| |X|    |X| |
--9-10--11-12-

mincut == 3
[(2, 5), (4, 6), (10, 11)]
```

```
1       2       3       4       9
2       1       3       4       5
3       1       2       4       9       10
4       1       2       3       6       9       10
5       2       6       7       8
6       4       5       7       8       11      12
7       5       6       8       12
8       5       6       7       11      12
9       3       4       1       10
10      3       4       9       11
11      6       8       10      12
12      6       7       8       11
```

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Peter Uelkes · 3 days ago

Hi Fred,

nice to see another veteran of "Algorithmic Thinking" here. Thanks for posting the test data, it was quite helpful in tracking down a bug in my code.

Peter

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Fred Dupont · 3 days ago

Hi Peter :)

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Fred Dupont · 3 days ago

```
0-1-2-5-6
  |X| |X|
  3-4-7-8

mincut == 1
```

This test case might be useful too.

```
1       2       3       4       0
2       1       3       4       5
3       1       2       4
4       1       2       3       7
5       2       6       7       8
6       5       7       8
7       4       5       6       8
8       5       6       7
0       1
```

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Kishore Senji · 2 days ago

Thank you for the test cases. I used Titan graph to code the algo.

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