MutPy mutation report

O 04.11.2024 16:55

Target

main_code.py

Tests [6]

• test_code [0.0 S]

Result summary

- "Il Score 75.0% ① Time 0.2 s

Mutants [8]

	75.0%				25	25.0%	
#	Module	Operator	Tests run	Duration	Result		
1		COI [11]	i	0.008 s	killed	→	
2		COI [15]	3	0.008 s	killed	→	
3		LCR [15]		0.008 s	killed	→	
4		ROR [11]	1	0.008 s	killed	→	
5		ROR [11]	6	0.006 s	survived	-	
6		ROR [15]	1	0.008 s	killed	+	
7		ROR [15]	2	0.009 s	killed	→	
8		ROR [15]	6	0.007 s	survived	→	

Details

- module -
- killed by test_basic_condition_coverage_1 (test_code.TestDoGraham)
- duration 0.008 s
- tests run 1

Exception traceback

```
Traceback (most recent call last):
   File "/content/test_code.py", line 29, in test_basic_condition_coverage_1
        self.assertEqual((result.x, result.y), expected, f"Failed for points: {[(p.x, p.y) for p in points]}")
AssertionError: Tuples differ: (0, 1) != (1, -1)

First differing element 0:
0
1
- (0, 1)
? ^ + (1, -1)
? ^ + + : Failed for points: [(0, 1), (1, -1), (2, 0)]
```

Mutations

COI - line 11

```
class Point:
    def __init__(self, x, y):
        self.x = x
        self.y = y

def doGraham(points):
    min_index = 0

for i in range(1, len(points)):
    if not (points[i].y < points[min_index].y):
        min_index = i

for i in range(0, len(points)):
    if (points[i].y == points[min_index].y and points[i].x > points[min_index].x):
        min_index = i

return points[min_index]
```

Details

module killed by test_basic_condition_coverage_1 (test_code.TestDoGraham)
 duration - 0.008 s
 tests run - 1

Exception traceback

```
Traceback (most recent call last):
    File "/content/test_code.py", line 29, in test_basic_condition_coverage_1
        self.assertEqual((result.x, result.y), expected, f"Failed for points: {[(p.x, p.y) for p in points]}")

AssertionError: Tuples differ: (2, 0) != (1, -1)

First differing element 0:
2
1
- (2, 0)
+ (1, -1): Failed for points: [(0, 1), (1, -1), (2, 0)]
```

Mutations

COI - line 15

```
class Point:
    def __init__(self, x, y):
        self.x = x
        self.y = y

def doGraham(points):
    min_index = 0

    for i in range(1, len(points)):
        if points[i].y < points[min_index].y;
            min_index = i

    for i in range(0, len(points)):
        if not ((points[i].y == points[min_index].y and points[i].x > points[min_index].x)):
            min_index = i

    return points[min_index]
```

Details

- module -
- killed by test_basic_condition_coverage_1 (test_code.TestDoGraham)
- duration 0.008 s
- tests run 1

Exception traceback

```
Traceback (most recent call last):
    File "/content/test_code.py", line 29, in test_basic_condition_coverage_1
        self.assertEqual((result.x, result.y), expected, f"Failed for points: {[(p.x, p.y) for p in points]}")
AssertionError: Tuples differ: (2, 0) != (1, -1)

First differing element 0:
2
1
- (2, 0)
+ (1, -1) : Failed for points: [(0, 1), (1, -1), (2, 0)]
```

Mutations

• LCR - line 15

```
class Point:
    def __init__(self, x, y):
        self.x = x
        self.y = y

def doGraham(points):
    min_index = 0

    for i in range(1, len(points)):
        if points[i].y < points[min_index].y:
            min_index = i

    for i in range(0, len(points)):
        if (points[i].y == points[min_index].y or points[i].x > points[min_index].x):
            min_index = i

    return points[min_index]
```

Details

- module -
- killed by test_basic_condition_coverage_1 (test_code.TestDoGraham)
- duration 0.008 s
- tests run 1

Exception traceback

```
Traceback (most recent call last):
    File "/content/test_code.py", line 29, in test_basic_condition_coverage_1
        self.assertEqual((result.x, result.y), expected, f"Failed for points: {[(p.x, p.y) for p in points]}")

AssertionError: Tuples differ: (0, 1) != (1, -1)

First differing element 0:
0
1
- (0, 1)
? ^ + (1, -1)
? ^ + :
Failed for points: [(0, 1), (1, -1), (2, 0)]
```

Mutations

ROR - line 11

```
class Point:
    def __init__(self, x, y):
        self.x = x
        self.y = y

def doGraham(points):
    min_index = 0

    for i in range(1, len(points)):
        if points[i].y > points[min_index].y:
            min_index = i

    for i in range(0, len(points)):
        if (points[i].y == points[min_index].y and points[i].x > points[min_index].x):
            min_index = i

    return points[min_index]
```

Details

- module -
- survivedduration 0.006 s
- tests run 6

Mutations

• ROR - line 11

```
class Point:
    def __init__(self, x, y):
         self_*x = x
         self.y = y
def doGraham(points):
    min_index = 0
     for i in range(1, len(points)):
         if points[i].y <= points[min_index].y:
    min_index = i</pre>
    for i in range(0, len(points)):
    if (points[i].y == points[min_index].y and points[i].x > points[min_index].x):
        min_index = i
     return points[min_index]
```

Details

- module -
- killed by test_basic_condition_coverage_1 (test_code.TestDoGraham)
- duration 0.008 s
- tests run 1

Exception traceback

```
Traceback (most recent call last):
    File "/content/test_code.py", line 29, in test_basic_condition_coverage_1
        self.assertEqual((result.x, result.y), expected, f"Failed for points: {[(p.x, p.y) for p in points]}")
AssertionError: Tuples differ: (2, 0) != (1, -1)

First differing element 0:
2
1
- (2, 0)
+ (1, -1) : Failed for points: [(0, 1), (1, -1), (2, 0)]
```

Mutations

ROR - line 15

```
class Point:
    def __init__(self, x, y):
        self.x = x
        self.y = y

def doGraham(points):
    min_index = 0

    for i in range(1, len(points)):
        if points[i].y < points[min_index].y:
            min_index = i

    for i in range(0, len(points)):
        if (points[i].y != points[min_index].y and points[i].x > points[min_index].x):
            min_index = i

    return points[min_index]
```

Details

- module -
- killed by test_basic_condition_coverage_2 (test_code.TestDoGraham)
- duration 0.009 s
- tests run 2

Exception traceback

```
Traceback (most recent call last):
    File "/content/test_code.py", line 35, in test_basic_condition_coverage_2
        self.assertEqual((result.x, result.y), expected, f"Failed for points: {[(p.x, p.y) for p in points]}")
AssertionError: Tuples differ: (0, 0) != (1, 0)

First differing element 0:
0
1
- (0, 0)
? ^
+ (1, 0)
? ^
: Failed for points: [(0, 0), (1, 0), (2, 1)]
```

Mutations

ROR - line 15

```
class Point:
    def __init__(self, x, y):
        self.x = x
        self.y = y

def doGraham(points):
    min_index = 0

for i in range(1, len(points)):
    if points[i].y < points[min_index].y:
        min_index = i

for i in range(0, len(points)):
    if (points[i].y == points[min_index].y and points[i].x < points[min_index].x):
        min_index = i

return points[min_index]</pre>
```

Details

- module -
- survived
- duration 0.007 s
- tests run 6

Mutations

ROR - line 15

```
class Point:
    def __init__(self, x, y):
        self.x = x
        self.y = y

def doGraham(points):
    min_index = 0

    for i in range(1, len(points)):
        if points[i].y < points[min_index].y:
            min_index = i

    for i in range(0, len(points)):
        if (points[i].y == points[min_index].y and points[i].x >= points[min_index].x):
            min_index = i

    return points[min_index]
```