



Q3: Statement coverage				
Statement overage 1:				
Change int i=1 into 0 in firse for loop: (Point) p.get(i).y < (Point) p.get(min),				
Test vector = [1,0], [2,0], [3,0], [0,1], [0,2], [0,3]				
Expected result = min = 3				
Exact result: min = 3				
The mutant statement coverage I expected jesuit equal to exact				
tesult. So it worlds				
Statement coverage 2:  Change int i = 0 into 1 in second for loop  Test vector = [1,0], [2,0], [3,0], [0,1], [0,2], [0.3]  Expected result = min = 3  Exact result: min = 3				
It works  However if the test vector change, statement coverage 2.				
will not work.				
Tested vector: [10,0], [2.0], [0.1], [0,5]				
then experted resule: min = 10				
Exact result: min=Z				
So it didn't work. it need to be fixed				

Branch Coverage 1: min = 1 instead of min = 7

Test Vector	Expected Valve	BCI result
[1,1],[-1,-1]	min = 1	mina)
[1,1], [-1,-1], [3,1]	min= Z	min=1

Coincidentally, it will be correct , otherwise wrong

Branch Coverage Z:

If (Point) p.get(i) y = = (Point)p.get(min).y ||

(point) P.get(i) (X > Point .P.get(i).X

Test Vector	Expected Value	BC2 result
[1,3], [0,3]	miato	min=1
[1,1]	l min=1	minsI

It will be wrong in all the situation like [1.3], 70.3]

Question 3:
Test set for "for every loop is explired zon"
Test set: []
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Test set for "for every loop is explored once"
Test set: [1,1], [-1,-1]
Test set for "for evy loop is explored two times"
Test set: [1,1],[1,1],[2,2],[-2,-2],[3,0],[0,3]