YOUR NAME:
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Principles of Software Quiz 4
October 18, 2018
10 points total

```
int f(int y) {
      int s = 0;
      int x = 0;
2.
      while (x < y) {
3.
        x = x+3;
        y = y+2;
        if (x+y<10)
4.
          s = s+x+y;
5.
6.
           s = s+x-y;
       // end-if
7.
     } // end-while
     return s;
8.
```

Question 1. (4pts) In the code above, find an argument a, such that f(a) achieves 100% statement coverage. If there are no such arguments, write "none".

Question 2. (2pts) 100% statement coverage implies 100% branch coverage.

- (a) true
- (b) false

Question 3. (2pts) Black-box tests test specifications.

- (a) true
- (b) false

Question 4. (2pts) The abstraction function maps abstract values to valid objects defined in the implementation.

- (a) true
- (b) false