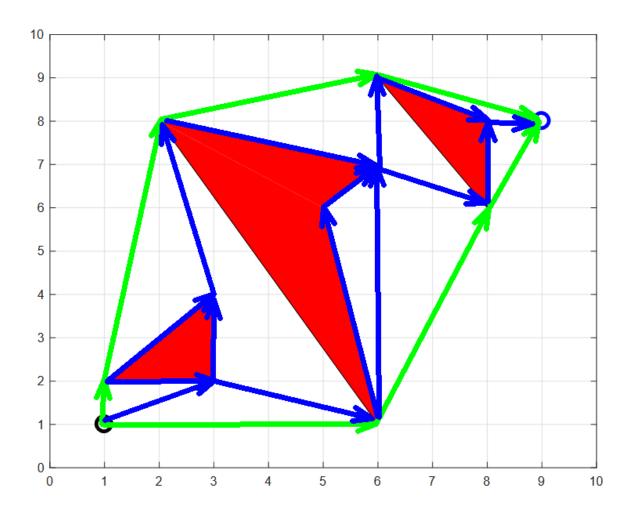
1. Green=reduced visibility



```
#hw1 problem 2
#import stuff here

#classes

#classes

class Node():
    def __init__(self, x, y, parent_cost, index):

#attributes
    self.x = x
    self.y=y
    self.parent_cost=parent_cost
    self.index=index

#mport stuff here

#classes

#classes

#classes

#attributes

self.x = x

self.y=y

self.parent_cost

self.index=index

#mport stuff here

#classes

#classes

#attributes

self.x = x

self.y=y

self.index=index

#mport stuff here

#classes

#classes

#attributes

self.x = x

self.y=y

self.index=index

#mport stuff here

#classes

#classes

#classes

#attributes

self.x = x

self.y=y

self.index=index

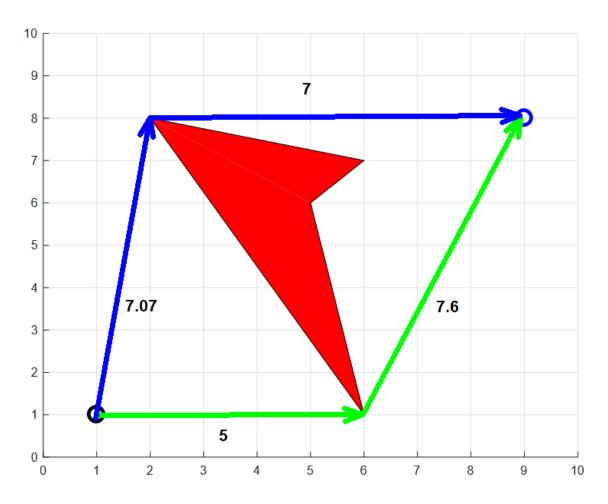
#mport stuff here

#classes

#
```

3.

2.



shortest distance: 12.6

4.

```
## study problem 4

| find problem 4
| find problem 4
| find problem 4
| find problem 4
| find problem 4
| find problem 4
| find problem 4
| find problem 4
| find problem 4
| find problem 4
| find problem 5
| find problem 5
| find problem 6
| find problem 7
| find problem 6
| find problem 7
| find problem 6
| find problem 7
| find problem 8
| f
```

```
#hw1 problem 2
#import stuff here

#classes
class Node():
    def __init__(self, x, y, parent_cost, index):

#attributes
self.x = x
self.y=y
self.parent_cost=parent_cost
self.index=index

10
17
18
19
```