

Additional Sample Input for Assignment 1

a "Columbia" (3,-2) (-2,0) (6,2)

a "University" (1,-2)(2,-1)(6,0)

a "Phillip" (2,-2) (2,2)

a "Lester" (3,-4)

a "Albert" (4,-2) (4,2)

a "Hazel" (5,-1) (5,2)

a "University" (6,-4) (8,12)

r "King"

c "King"

g // See Graph 1

```
V = {  
1: (-2,0)  
2: (2,1)  
3: (4,1.5)  
4: (5,1.75)  
5: (6,2)  
7: (1,-2)  
8: (2,-1)  
9: (4,-0.5)  
10: (5,-0.25)  
11: (6,0)  
12: (2,-2)  
13: (2,2)  
14: (4,-2)  
15: (4,2)  
16: (5,-1)  
17: (5,2)  
}  
E = {  
<1,2>,  
<2,3>,  
<2,13>,  
<2,8>,  
<3,15>,  
<3,9>,  
<3,4>,  
<4,17>,  
<4,10>,  

```

```
<4,5>,  
<7,8>,  
<8,12>,  
<8,9>,  
<9,14>,  
<9,10>,  
<10,16>,  
<10,11>  
}
```

c "Hazel" (5,-1) (5 , 0)
g // See Graph 2

```
V = {  
1: (-2,0)  
2: (2,1)  
3: (4,1.5)  
4: (5,1.75)  
5: (6,2)  
7: (1,-2)  
8: (2,-1)  
9: (4,-0.5)  
11: (6,0)  
12: (2,-2)  
13: (2,2)  
14: (4,-2)  
15: (4,2)  
16: (5,0)  
17: (5,2)  
}  
E = {  
<1,2>,  
<2,3>,  
<2,13>,  
<2,8>,  
<3,15>,  
<3,9>,  
<3,4>,  
<4,17>,  
<4,16>,  
<4,5>,  

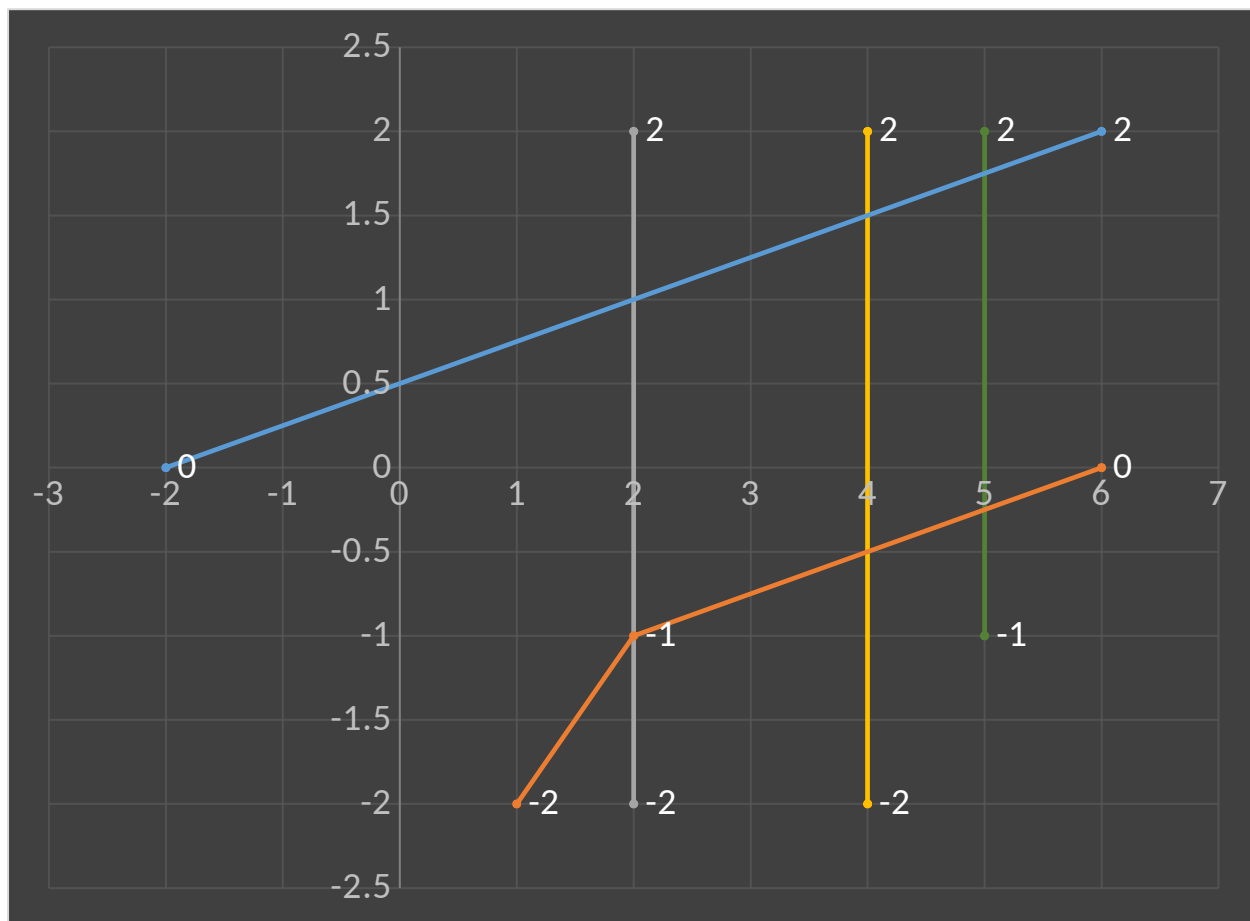
```

```
<7,8>,  
<8,12>,  
<8,9>,  
<9,14>  
}
```

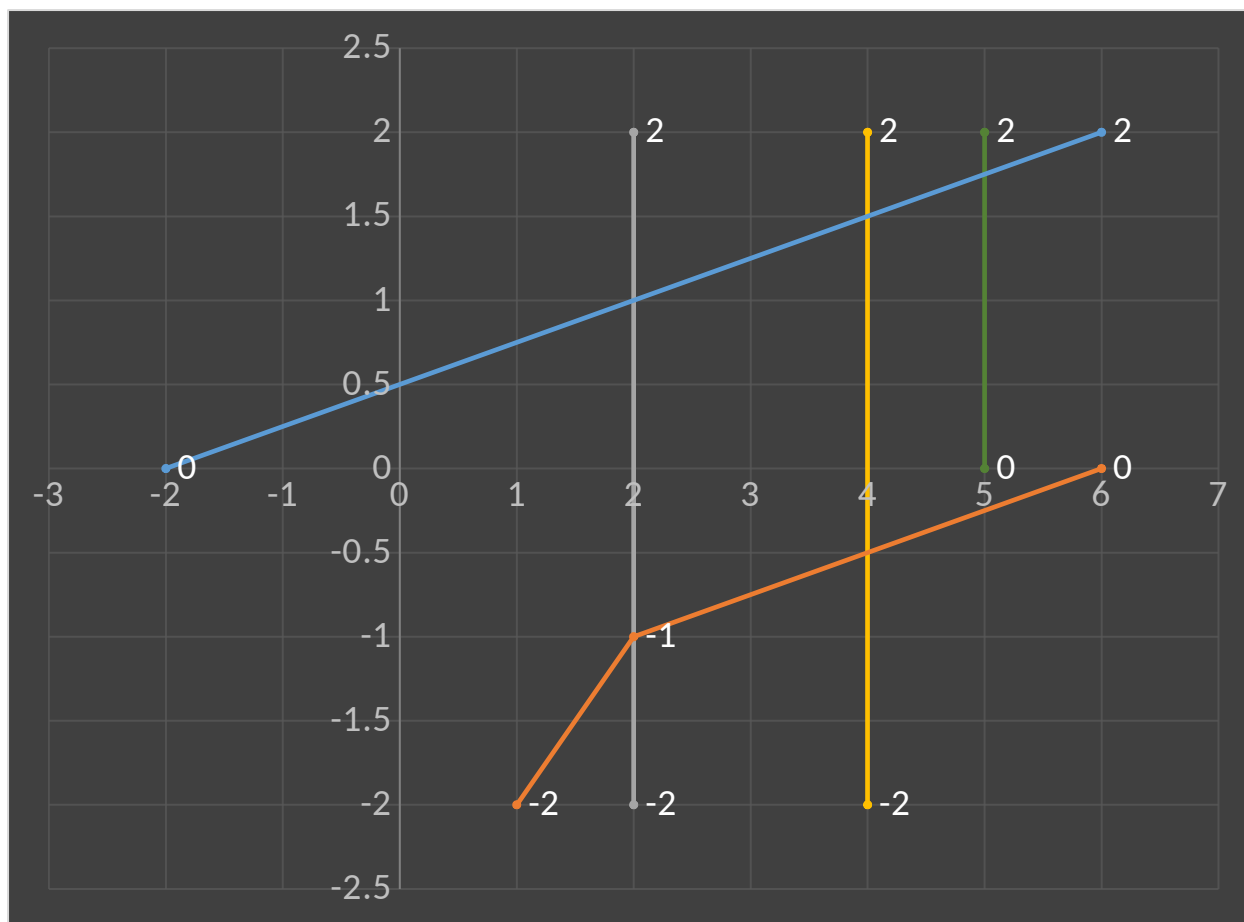
The Standard Error Output for the above example can be as follows:

Error: Incomplete coordinates in a "Lester", no end point.
Error: 'a' specified for a street that already exists.
Error: 'r' specified for a street that does not exist.
Error: 'c' specified for a street that does not exist.

Additionally, the following graphs demonstrates the aforementioned sample input.



Graph 1



Graph 2