

```
1 /Users/ryanwu/Project2/bin/python /Users/ryanwu/
  Documents/CMU/24-677 Modern Control Theory/Project/
  Project2/Q1.py
2 At 2 m/s:
3 Rank of controllability matrix P: 4, Controllable:
  Yes
4 Rank of observability matrix Q: 4, Observable: Yes
5 =====
  ====
6 At 5 m/s:
7 Rank of controllability matrix P: 4, Controllable:
  Yes
8 Rank of observability matrix Q: 4, Observable: Yes
9 =====
  ====
10 At 8 m/s:
11 Rank of controllability matrix P: 4, Controllable:
  Yes
12 Rank of observability matrix Q: 4, Observable: Yes
13 =====
  ====
14
15 Process finished with exit code 0
16
```