

1.

0	0	0	0	0	0	1	0	0	0	0
0	0	0	0	0	0	0	0	1	0	0
0	0	0	0	0	0	1	1	1	0	0
0	0	0	0	0	0	0	0	1	1	0
0	0	0	0	0	0	0	0	1	0	1
0	0	0	0	0	0	0	0	0	0	1
1	0	1	0	0	0	0	0	0	0	0
0	0	1	0	0	0	0	0	0	0	0
0	1	1	1	1	0	0	0	0	0	0
0	0	0	1	0	0	0	0	0	0	0
0	0	0	0	1	1	0	0	0	0	0

This matrix is block diagonal because the main diagonal (top left to bottom right) is all zeros

2. Not sure how to do this part**
3. Purple: 1.67 Green: 2
4. Also not sure about this**

**I missed the lecture about projections. I reviewed the notes but I keep getting an error message with the attached pdf:

```
▼<Error>
  <Code>AccessDenied</Code>
  <Message>Access Denied</Message>
  <RequestId>WB17MMTP6XPDAB6Z</RequestId>
  ▼<HostId>
    LGkoB7o8lfOdLSmaleta5dl8o4CQ4eiU0/VLtfUaAmpU7YRLF0zwVWpc9o/NZogcATzmevmkWczp0kg2coPk2Q==
  </HostId>
</Error>
```