

```
1  import numpy as np
2
3  if __name__ == "__main__":
4      A = np.matrix([[1, 0, -1, 0], [0, 1, 0, -1], [0, 1, 2, 1], [0, 0, 0, 2]])
5
6      print(A)
7
8      B = np.identity(4) - A
9      for i in range(1, 3):
10         C = (2 * np.identity(4)) - A
11         for k in range(1, 3):
12             print((i, k))
13             print(B * C, end="\n\n")
14             C = C * C
15         B = B * B
16
```