You have been employed by the National Intelligence Agency (NIA) as a security expert and your first task is to decrypt messages sent by a criminal who has bypassed NIA’s security systems and is now withholding all of the official documents. But, the criminal, A, has dropped a major hint stating that all of the messages can be decoded using the same manner. Given you are new to the team, your boss has given you only a portion of a couple of messages to encode.

Construct a method, **decodeMessage(matrix)**, which will take in another matrix as a parameter and return the decoded matrix as shown in the output below.

| **Encoded Matrix / Input** | **Decoded Matrix / Output** |
| --- | --- |
| | **4** | **5** | **2** | | --- | --- | --- | | **21** | **67** | **3** | | | **4** | **21** | | --- | --- | | **5** | **67** | | **2** | **3** | |
| | **4** | **5** | **12** | | --- | --- | --- | | **21** | **67** | **3** | | **1** | **42** | **55** | | | **4** | **21** | **1** | | --- | --- | --- | | **5** | **67** | **42** | | **12** | **3** | **55** | |

#only complete this method. Don’t worry about the driver code

**Python:**

def **decryptMatrix(**matrix**):**

#todo

**Java:**

public static void **decryptMatrix(**matrix**):**

//todo