Cipher   Code

#1 · ✓ Correct ⌄

```
✓ let cipher01 = new Cipher("ABCD", "1AX3S1M2PYZ")
✓ cipher01.grid
    return
    [["-", "A", "X", "-"], ["-", "-", "S", "-"], ["M", "-", "-", "P"], ["Y", "Z", "-", "-"]]
✓ cipher01.map
    return
    {"A": "AB", "X": "AC", "S": "BC", "M": "CA", "P": "CD", "Y": "DA", "Z": "DB"}
✓ cipher01.encode("spam")
    return
    "BCCDABCA"
✓ cipher01.decode("BCCDABCA")
    return
    "SPAM"
✓ cipher01.encode("eggs")
    exception
    AssertionError: invalid message
✓ cipher01.decode("BCCDBACA")
    exception
    AssertionError: invalid message
```

#2 · ✓ Correct ⌄

```
✓ let cipher02 = new Cipher("HISPAYMENT", "14K1S2DL1NW4P2R1H3T3U2O6X3A1F6B1G4I1C2V1Y3E2M2J")
```