```
clear
clc
encodedMessage = [
    [25, -33, -53],;
    [27, -31, -84],;
    [8, -23, 40],;
    [-15, 15, 44],;
    [6, -31, 107],;
    [15, -30, 24]
];
knownKey = [
    [-4 -4 -4],;
    [-4 -4 -4],;
   [-4 -4 -4]
];
keySize = length(knownKey);
depth = 4;
x = keySize ^ 2;
testKey(knownKey,encodedMessage);
while x > 0
    value = knownKey(x);
    if value >= depth
        knownKey(x) = -depth;
        x = x - 1;
    else
        knownKey(x) = value + 1;
        testKey(knownKey,encodedMessage);
        x = keySize ^ 2;
    end
end
Key
    -1
          1
               3
     1
          -2
                2
     1
          -1
               -4
Inverse
   -10
          -1
               -8
    -6
          -1
               -5
          0
    -1
                -1
Message
AHR DWROKP ASY FOF
Key
               3
    -1
          1
    1
         -1
                -4
     1
          -2
                2
```

Inverse

Message

ARH WDRKOPA S YFFO

Key

Inverse

Message

HARD WORK PAYS OFF

Key

Inverse

Message

RAHW DKROAP SYFFO

Key

Inverse

Message

HRADW OKR APY SOFF

Key

Inverse

Message

RHAWD KORA P YSFOF

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