g-matrices of st-tilt(D_5)

```
[ [   1,   0,   0,   0,   0 ],
  [   0,   1,   0,   0,   0 ],
  [   0,   0,   1,   0,   0 ],
  [   0,   0,   0,   1,   0 ],
  [   0,   0,   0,   0,   1 ] ]
```

```
[ [  -1,   0,   0,   0,   0 ],
  [   0,  -1,   0,   0,   0 ],
  [   0,   0,  -1,   0,   0 ],
  [   0,   0,   0,  -1,   0 ],
  [   0,   0,   0,   0,  -1 ] ]
```

```
[ [   0,   0,   0,   1,   0 ],
  [   0,   0,   0,   1,  -1 ],
  [   0,   0,   1,   0,   0 ],
  [   1,   0,   0,   0,   0 ],
  [   0,   1,   0,   0,   0 ] ]
```

```
[ [   0,   0,   1,  -1,   1 ],
  [   0,   0,   0,   0,   1 ],
  [   0,   0,   1,   0,   0 ],
  [   1,   0,   0,   0,   0 ],
  [   0,   1,   0,   0,   0 ] ]
```

```
[ [   1,   1,  -1,   1,   0 ],
  [   0,   0,   0,   1,   0 ],
  [   0,   0,   0,   0,   1 ],
  [   1,   0,   0,   0,   0 ],
  [   0,   1,   0,   0,   0 ] ]
```

```
[ [   0,   0,   0,   1,   0 ],
  [   0,   0,   0,   0,   1 ],
  [   0,  -1,   1,   0,   0 ],
  [   0,   0,   1,   0,   0 ],
  [   1,   0,   0,   0,   0 ] ]
```

```
[ [   0,   0,   0,   1,   0 ],
  [   0,   0,   0,   0,   1 ],
```

```
       [   -1,    0,    1,    0,    0 ],
       [    0,    0,    1,    0,    0 ],
       [    0,    1,    0,    0,    0 ] ]
----------
[ [    0,    0,    1,    0,    0 ],
  [    0,    0,    0,    1,   -1 ],
  [    0,    1,    0,    0,    0 ],
  [    1,    0,    0,    0,    0 ],
  [    0,    0,    0,    0,   -1 ] ]
----------
[ [    1,    1,   -1,    1,    0 ],
  [    0,    0,    0,    1,    0 ],
  [    0,    0,    0,    1,   -1 ],
  [    1,    0,    0,    0,    0 ],
  [    0,    1,    0,    0,    0 ] ]
----------
[ [    0,    0,    0,    1,    0 ],
  [    0,   -1,    1,    0,    0 ],
  [    0,    0,    0,    1,   -1 ],
  [    0,    0,    1,    0,    0 ],
  [    1,    0,    0,    0,    0 ] ]
----------
[ [    0,    0,    0,    1,    0 ],
  [   -1,    0,    1,    0,    0 ],
  [    0,    0,    0,    1,   -1 ],
  [    0,    0,    1,    0,    0 ],
  [    0,    1,    0,    0,    0 ] ]
----------
[ [    0,    0,    1,   -1,    1 ],
  [    0,    0,    1,    0,    0 ],
  [    0,    0,    1,   -1,    0 ],
  [    1,    0,    0,    0,    0 ],
  [    0,    1,    0,    0,    0 ] ]
----------
[ [    0,    0,    0,   -1,    1 ],
  [    0,    0,    1,   -1,    1 ],
  [    0,    0,    0,    0,    1 ],
  [    1,    0,    0,    0,    0 ],
  [    0,    1,    0,    0,    0 ] ]
----------
[ [    0,    0,    1,   -1,    1 ],
```

```
         [    0,    0,    0,    0,    1 ],
         [    0,   -1,    1,    0,    0 ],
         [    0,    0,    1,    0,    0 ],
         [    1,    0,    0,    0,    0 ] ]
---------
[ [    0,    0,    1,   -1,    1 ],
         [    0,    0,    0,    0,    1 ],
         [   -1,    0,    1,    0,    0 ],
         [    0,    0,    1,    0,    0 ],
         [    0,    1,    0,    0,    0 ] ]
---------
[ [    1,    1,   -1,    1,    0 ],
         [    0,    0,    0,    0,    1 ],
         [    1,    1,   -1,    0,    0 ],
         [    1,    0,    0,    0,    0 ],
         [    0,    1,    0,    0,    0 ] ]
---------
[ [    2,    0,   -1,    1,    0 ],
         [    1,    1,   -1,    1,    0 ],
         [    0,    0,    0,    1,    0 ],
         [    0,    0,    0,    0,    1 ],
         [    1,    0,    0,    0,    0 ] ]
---------
[ [    0,    1,   -1,    1,    0 ],
         [    1,    1,   -1,    1,    0 ],
         [    0,    0,    0,    1,    0 ],
         [    0,    0,    0,    0,    1 ],
         [    0,    1,    0,    0,    0 ] ]
---------
[ [    0,    0,    0,    1,    0 ],
         [    0,    0,    0,    0,    1 ],
         [    0,   -1,    1,    0,    0 ],
         [    1,   -1,    0,    0,    0 ],
         [    1,    0,    0,    0,    0 ] ]
---------
[ [    0,    0,    0,    1,    0 ],
         [    0,    0,    0,    0,    1 ],
         [   -1,    0,    1,    0,    0 ],
         [    0,   -1,    1,    0,    0 ],
         [    0,    0,    1,    0,    0 ] ]
---------
```

```
[[   0,   0,   0,   1,   0 ],
 [   0,   0,   0,   0,   1 ],
 [  -1,   0,   1,   0,   0 ],
 [  -1,   1,   0,   0,   0 ],
 [   0,   1,   0,   0,   0 ]]
----------
[[   0,   0,   1,   0,   0 ],
 [   0,   0,   1,  -1,   0 ],
 [   0,   1,   0,   0,   0 ],
 [   1,   0,   0,   0,   0 ],
 [   0,   0,   0,   0,  -1 ]]
----------
[[   1,   1,  -1,   1,  -1 ],
 [   0,   0,   0,   1,  -1 ],
 [   0,   1,   0,   0,   0 ],
 [   1,   0,   0,   0,   0 ],
 [   0,   0,   0,   0,  -1 ]]
----------
[[  -1,   0,   1,   0,   0 ],
 [   0,   0,   1,   0,   0 ],
 [   0,   0,   0,   1,  -1 ],
 [   0,   1,   0,   0,   0 ],
 [   0,   0,   0,   0,  -1 ]]
----------
[[   0,  -1,   1,   0,   0 ],
 [   0,   0,   1,   0,   0 ],
 [   0,   0,   0,   1,  -1 ],
 [   1,   0,   0,   0,   0 ],
 [   0,   0,   0,   0,  -1 ]]
----------
[[   1,   1,  -1,   1,   0 ],
 [   1,   1,  -1,   1,  -1 ],
 [   0,   0,   0,   1,  -1 ],
 [   1,   0,   0,   0,   0 ],
 [   0,   1,   0,   0,   0 ]]
----------
[[   2,   0,  -1,   1,   0 ],
 [   1,   1,  -1,   1,   0 ],
 [   0,   0,   0,   1,   0 ],
 [   0,   0,   0,   1,  -1 ],
 [   1,   0,   0,   0,   0 ]]
```

```
----------
[[    0,    1,   -1,    1,    0 ],
 [    1,    1,   -1,    1,    0 ],
 [    0,    0,    0,    1,    0 ],
 [    0,    0,    0,    1,   -1 ],
 [    0,    1,    0,    0,    0 ]]
----------
[[    0,    0,    0,    1,    0 ],
 [    0,   -1,    1,    0,    0 ],
 [    0,    0,    0,    1,   -1 ],
 [    1,   -1,    0,    0,    0 ],
 [    1,    0,    0,    0,    0 ]]
----------
[[    0,    0,    0,    1,    0 ],
 [   -1,    0,    1,    0,    0 ],
 [    0,   -1,    1,    0,    0 ],
 [    0,    0,    0,    1,   -1 ],
 [    0,    0,    1,    0,    0 ]]
----------
[[    0,    0,    0,    1,    0 ],
 [   -1,    0,    1,    0,    0 ],
 [    0,    0,    0,    1,   -1 ],
 [   -1,    1,    0,    0,    0 ],
 [    0,    1,    0,    0,    0 ]]
----------
[[    0,    0,    0,   -1,    1 ],
 [    0,    0,    1,   -1,    1 ],
 [    0,    0,    1,   -1,    0 ],
 [    1,    0,    0,    0,    0 ],
 [    0,    1,    0,    0,    0 ]]
----------
[[    0,    0,    1,   -1,    1 ],
 [    0,   -1,    1,    0,    0 ],
 [    0,    0,    1,    0,    0 ],
 [    0,    0,    1,   -1,    0 ],
 [    1,    0,    0,    0,    0 ]]
----------
[[    0,    0,    1,   -1,    1 ],
 [   -1,    0,    1,    0,    0 ],
 [    0,    0,    1,    0,    0 ],
 [    0,    0,    1,   -1,    0 ],
```

```
    [    0,    1,    0,    0,    0 ] ]
----------
[ [    0,    0,    0,   -1,    1 ],
  [    0,    0,    0,    0,    1 ],
  [    1,    1,   -1,    0,    0 ],
  [    1,    0,    0,    0,    0 ],
  [    0,    1,    0,    0,    0 ] ]
----------
[ [    0,   -1,    1,   -1,    1 ],
  [    0,    0,    0,   -1,    1 ],
  [    0,    0,    1,   -1,    1 ],
  [    0,    0,    0,    0,    1 ],
  [    1,    0,    0,    0,    0 ] ]
----------
[ [   -1,    0,    1,   -1,    1 ],
  [    0,    0,    0,   -1,    1 ],
  [    0,    0,    1,   -1,    1 ],
  [    0,    0,    0,    0,    1 ],
  [    0,    1,    0,    0,    0 ] ]
----------
[ [    0,   -1,    1,   -1,    1 ],
  [    0,    0,    1,   -1,    1 ],
  [    0,    0,    0,    0,    1 ],
  [    0,   -1,    1,    0,    0 ],
  [    1,    0,    0,    0,    0 ] ]
----------
[ [    0,    0,    1,   -1,    1 ],
  [    0,    0,    0,    0,    1 ],
  [   -1,    0,    1,    0,    0 ],
  [    0,   -1,    1,    0,    0 ],
  [    0,    0,    1,    0,    0 ] ]
----------
[ [   -1,    0,    1,   -1,    1 ],
  [    0,    0,    1,   -1,    1 ],
  [    0,    0,    0,    0,    1 ],
  [   -1,    0,    1,    0,    0 ],
  [    0,    1,    0,    0,    0 ] ]
----------
[ [    1,    1,   -1,    1,    0 ],
  [    1,    1,   -1,    1,   -1 ],
  [    1,    1,   -1,    0,    0 ],
```

```
    [    1,    0,    0,    0,    0 ],
    [    0,    1,    0,    0,    0 ] ]
----------
[ [    2,    0,   -1,    1,    0 ],
    [    1,    1,   -1,    1,    0 ],
    [    0,    0,    0,    0,    1 ],
    [    1,    1,   -1,    0,    0 ],
    [    1,    0,    0,    0,    0 ] ]
----------
[ [    0,    1,   -1,    1,    0 ],
    [    1,    1,   -1,    1,    0 ],
    [    0,    0,    0,    0,    1 ],
    [    1,    1,   -1,    0,    0 ],
    [    0,    1,    0,    0,    0 ] ]
----------
[ [    2,    0,   -1,    1,    0 ],
    [    0,    0,    0,    1,    0 ],
    [    0,    0,    0,    0,    1 ],
    [    1,   -1,    0,    0,    0 ],
    [    1,    0,    0,    0,    0 ] ]
----------
[ [    1,    0,   -1,    1,    0 ],
    [    2,    0,   -1,    1,    0 ],
    [    1,    1,   -1,    1,    0 ],
    [    0,    0,    0,    1,    0 ],
    [    0,    0,    0,    0,    1 ] ]
----------
[ [    0,    1,   -1,    1,    0 ],
    [    0,    0,    0,    1,    0 ],
    [    0,    0,    0,    0,    1 ],
    [   -1,    1,    0,    0,    0 ],
    [    0,    1,    0,    0,    0 ] ]
----------
[ [    1,    0,   -1,    1,    0 ],
    [    0,    1,   -1,    1,    0 ],
    [    1,    1,   -1,    1,    0 ],
    [    0,    0,    0,    1,    0 ],
    [    0,    0,    0,    0,    1 ] ]
----------
[ [    0,   -1,    1,   -1,    1 ],
    [    0,    0,    0,    0,    1 ],
```

```
    [    0,   -1,    1,    0,    0 ],
    [    1,   -1,    0,    0,    0 ],
    [    1,    0,    0,    0,    0 ] ]
----------
[ [    0,    0,    0,    0,    1 ],
    [    0,    0,    0,    1,    0 ],
    [    0,   -1,    1,    0,    0 ],
    [    1,   -1,    0,    0,    0 ],
    [    0,   -1,    0,    0,    0 ] ]
----------
[ [    0,    0,    0,    1,    0 ],
    [    0,    0,    0,    0,    1 ],
    [   -1,   -1,    1,    0,    0 ],
    [   -1,    0,    1,    0,    0 ],
    [    0,   -1,    1,    0,    0 ] ]
----------
[ [   -1,    0,    1,   -1,    1 ],
    [    0,    0,    0,    0,    1 ],
    [   -1,    0,    1,    0,    0 ],
    [   -1,    1,    0,    0,    0 ],
    [    0,    1,    0,    0,    0 ] ]
----------
[ [    0,    0,    0,    1,    0 ],
    [    0,    0,    0,    0,    1 ],
    [   -2,    0,    1,    0,    0 ],
    [   -1,    0,    1,    0,    0 ],
    [   -1,    1,    0,    0,    0 ] ]
----------
[ [    1,    0,    0,    0,    0 ],
    [    0,    1,    0,    0,    0 ],
    [    0,    0,    1,   -1,    0 ],
    [    0,    0,    0,   -1,    0 ],
    [    0,    0,    0,    0,   -1 ] ]
----------
[ [   -1,    0,    1,    0,    0 ],
    [    0,    0,    1,    0,    0 ],
    [    0,    0,    1,   -1,    0 ],
    [    0,    1,    0,    0,    0 ],
    [    0,    0,    0,    0,   -1 ] ]
----------
[ [    0,   -1,    1,    0,    0 ],
```

```
      [    0,    0,    1,    0,    0 ],
      [    0,    0,    1,   -1,    0 ],
      [    1,    0,    0,    0,    0 ],
      [    0,    0,    0,    0,   -1 ] ]
----------
[ [    1,    1,   -1,    1,   -1 ],
      [    1,    1,   -1,    0,    0 ],
      [    0,    1,    0,    0,    0 ],
      [    1,    0,    0,    0,    0 ],
      [    0,    0,    0,    0,   -1 ] ]
----------
[ [    0,    1,   -1,    1,   -1 ],
      [    1,    1,   -1,    1,   -1 ],
      [    0,    0,    0,    1,   -1 ],
      [    0,    1,    0,    0,    0 ],
      [    0,    0,    0,    0,   -1 ] ]
----------
[ [    2,    0,   -1,    1,   -1 ],
      [    1,    1,   -1,    1,   -1 ],
      [    0,    0,    0,    1,   -1 ],
      [    1,    0,    0,    0,    0 ],
      [    0,    0,    0,    0,   -1 ] ]
----------
[ [   -1,    0,    1,    0,    0 ],
      [    0,    0,    0,    1,   -1 ],
      [   -1,    1,    0,    0,    0 ],
      [    0,    1,    0,    0,    0 ],
      [    0,    0,    0,    0,   -1 ] ]
----------
[ [    0,   -1,    1,    0,    0 ],
      [   -1,    0,    1,    0,    0 ],
      [    0,    0,    1,    0,    0 ],
      [    0,    0,    0,    1,   -1 ],
      [    0,    0,    0,    0,   -1 ] ]
----------
[ [    0,   -1,    1,    0,    0 ],
      [    0,    0,    0,    1,   -1 ],
      [    1,   -1,    0,    0,    0 ],
      [    1,    0,    0,    0,    0 ],
      [    0,    0,    0,    0,   -1 ] ]
----------
```

```
[ [    2,    0,   -1,    1,    0 ],
  [    1,    1,   -1,    1,    0 ],
  [    1,    1,   -1,    1,   -1 ],
  [    0,    0,    0,    1,   -1 ],
  [    1,    0,    0,    0,    0 ] ]
----------
[ [    0,    1,   -1,    1,    0 ],
  [    1,    1,   -1,    1,    0 ],
  [    1,    1,   -1,    1,   -1 ],
  [    0,    0,    0,    1,   -1 ],
  [    0,    1,    0,    0,    0 ] ]
----------
[ [    2,    0,   -1,    1,    0 ],
  [    0,    0,    0,    1,    0 ],
  [    0,    0,    0,    1,   -1 ],
  [    1,   -1,    0,    0,    0 ],
  [    1,    0,    0,    0,    0 ] ]
----------
[ [    1,    0,   -1,    1,    0 ],
  [    2,    0,   -1,    1,    0 ],
  [    1,    1,   -1,    1,    0 ],
  [    0,    0,    0,    1,    0 ],
  [    0,    0,    0,    1,   -1 ] ]
----------
[ [    0,    1,   -1,    1,    0 ],
  [    0,    0,    0,    1,    0 ],
  [    0,    0,    0,    1,   -1 ],
  [   -1,    1,    0,    0,    0 ],
  [    0,    1,    0,    0,    0 ] ]
----------
[ [    1,    0,   -1,    1,    0 ],
  [    0,    1,   -1,    1,    0 ],
  [    1,    1,   -1,    1,    0 ],
  [    0,    0,    0,    1,    0 ],
  [    0,    0,    0,    1,   -1 ] ]
----------
[ [    0,    0,    0,    1,    0 ],
  [    0,    0,    0,    1,   -1 ],
  [    0,   -1,    1,    0,    0 ],
  [    1,   -1,    0,    0,    0 ],
  [    0,   -1,    0,    0,    0 ] ]
```

```
----------
[ [    0,    0,    0,    1,    0 ],
  [   -1,   -1,    1,    0,    0 ],
  [   -1,    0,    1,    0,    0 ],
  [    0,   -1,    1,    0,    0 ],
  [    0,    0,    0,    1,   -1 ] ]
----------
[ [    0,    0,    0,    1,    0 ],
  [   -2,    0,    1,    0,    0 ],
  [   -1,    0,    1,    0,    0 ],
  [    0,    0,    0,    1,   -1 ],
  [   -1,    1,    0,    0,    0 ] ]
----------
[ [    0,    0,    0,   -1,    1 ],
  [    0,    1,    0,    0,    0 ],
  [    1,    0,    0,    0,    0 ],
  [    0,    0,    1,   -1,    0 ],
  [    0,    0,    0,   -1,    0 ] ]
----------
[ [    0,   -1,    1,   -1,    1 ],
  [    0,    0,    0,   -1,    1 ],
  [    0,    0,    1,   -1,    1 ],
  [    0,    0,    1,   -1,    0 ],
  [    1,    0,    0,    0,    0 ] ]
----------
[ [   -1,    0,    1,   -1,    1 ],
  [    0,    0,    0,   -1,    1 ],
  [    0,    0,    1,   -1,    1 ],
  [    0,    0,    1,   -1,    0 ],
  [    0,    1,    0,    0,    0 ] ]
----------
[ [    0,   -1,    1,   -1,    1 ],
  [    0,    0,    1,   -1,    1 ],
  [    0,   -1,    1,    0,    0 ],
  [    0,    0,    1,   -1,    0 ],
  [    1,    0,    0,    0,    0 ] ]
----------
[ [    0,    0,    1,   -1,    1 ],
  [   -1,    0,    1,    0,    0 ],
  [    0,   -1,    1,    0,    0 ],
  [    0,    0,    1,    0,    0 ],
```

```
      [    0,    0,    1,   -1,    0 ] ]
----------
[ [   -1,    0,    1,   -1,    1 ],
  [    0,    0,    1,   -1,    1 ],
  [   -1,    0,    1,    0,    0 ],
  [    0,    0,    1,   -1,    0 ],
  [    0,    1,    0,    0,    0 ] ]
----------
[ [    0,    0,    0,   -1,    1 ],
  [    0,    1,    0,    0,    0 ],
  [    1,    0,    0,    0,    0 ],
  [    1,    1,   -1,    0,    0 ],
  [    0,    0,    0,   -1,    0 ] ]
----------
[ [    0,    0,    0,   -1,    1 ],
  [    0,    0,    0,    0,    1 ],
  [    2,    0,   -1,    0,    0 ],
  [    1,    1,   -1,    0,    0 ],
  [    1,    0,    0,    0,    0 ] ]
----------
[ [    0,    0,    0,   -1,    1 ],
  [    0,    0,    0,    0,    1 ],
  [    1,    1,   -1,    0,    0 ],
  [    0,    1,    0,    0,    0 ],
  [    0,    1,   -1,    0,    0 ] ]
----------
[ [    0,   -1,    1,   -1,    1 ],
  [    0,    0,    0,   -1,    1 ],
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  [    1,   -1,    0,    0,    0 ],
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```

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[ [   0,    0,   -1,    1,    0 ],
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  [  -1,    1,    0,    0,    0 ] ]
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```

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  [    1,   -1,    0,    0,    0 ],
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```

```
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[ [   -1,   -1,    1,    0,    0 ],
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```

```
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----------
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```

```
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  [    0,    0,    0,    1,   -1 ] ]
----------
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  [    0,    0,    0,   -1,    0 ] ]
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[ [    0,    0,    0,   -1,    1 ],
```

```
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```

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```

```
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```

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```

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  [    0,    1,   -1,    1,   -1 ],
```

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[ [    1,    0,   -1,    1,    0 ],
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```

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  [    0,    1,  -1,    0,    0 ],
```

```
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[ [    0,    0,    0,    1,   -1 ],
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  [   -2,    0,    1,    0,    0 ],
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----------
[ [   -1,   -1,    1,    0,    0 ],
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  [   -1,    0,    1,    0,    0 ],
```

```
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      [    0,    0,    0,    0,   -1 ] ]
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----------
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----------
[ [    1,    0,   -1,    1,   -1 ],
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----------
[ [    1,    1,   -2,    2,   -1 ],
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```

```
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[ [    0,    0,    0,    1,    0 ],
```

```
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```

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```

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  [    0,    1,   -1,    0,    0 ],
```

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  [    1,   -1,    0,    0,    0 ],
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  [   -2,    0,    1,   -1,    1 ],
```

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   [    2,    0,   -1,    1,    0 ],
```

```
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[ [    1,    0,   -1,    1,    0 ],
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----------
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```

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  [   0,    0,    0,   -1,    0 ],
```

```
         [   0,    0,    0,    0,   -1 ] ]
----------
[ [    0,   -1,    1,   -1,    0 ],
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  [    0,    0,    0,    0,   -1 ] ]
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----------
[ [    1,    1,   -2,    1,   -1 ],
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  [    1,    1,   -1,    0,    0 ],
```

```
    [    0,    1,   -1,    0,    0 ],
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----------
[ [    1,    1,   -2,    1,   -1 ],
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----------
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----------
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----------
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    [    2,    0,   -1,    1,   -1 ],
```

```
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----------
[ [    1,    0,   -1,    1,   -1 ],
```

```
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```

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```

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  [   -1,    0,    1,    0,    0 ],
```

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  [    1,    0,   -1,    0,    0 ],
```

```
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[ [   -1,   -1,    1,   -1,    1 ],
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```

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[ [    1,    1,   -2,    1,    0 ],
```

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  [    1,   -1,    0,    0,    0 ] ]
----------
```

```
[ [   1,   0,  -1,   1,   0 ],
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  [   1,   0,  -1,   0,   0 ] ]
```

```
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```

```
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----------
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  [   0,   -1,    0,    0,    0 ],
```

```
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   [    0,    0,    0,    0,   -1 ] ]
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   [    2,    0,   -1,    0,    0 ],
```

```
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----------
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[ [   -1,   -1,    1,    0,    0 ],
```

```
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     [    0,   -1,    0,    0,    0 ] ]
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  [  -2,    0,    1,   -1,    0 ],
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  [    0,    1,   -1,    0,    0 ],
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```

```
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[ [   0,    1,   -1,    0,    0 ],
```

```
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----------
```

```
[[   0,    0,   -1,    1,   -1 ],
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```

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```

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```

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Number: 456
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