RLESequence Tests:

Test A with length 7: [0 0 0 0 0 0 0]

The compressed array: [(7,0)]

Test F with an array sequence: [0 0 0 0 0 0 0]

The compressed array: [(7,0)]

The sequences from Test A and Test F are the same.

Test B with an array sequence: [5 5 5 5 1 1 3 3 3 3]

The compressed array of Test B: [(4,5),(2,1),(4,3)]

Uncompressed array from Test B using toArray: [5 5 5 5 1 1 3 3 3 3]

Test C gives the value when index = 5 of the array from Test B: 1

The sequence when the value at index 2 of Test B is set to 4: [(2,5),(1,4),(1,5),(2,1),(4,3)]

The sequence when the value at index 3 of Test B is set to 4: [(2,5),(2,4),(2,1),(4,3)]

The sequence when the value at index 8 of Test B is set to 3: [(2,5),(2,4),(2,1),(4,3)]

The length of Test B's sequence before tailReplace: 10

After tailReplacing Test A into Test B: [(2,5),(2,4),(2,1),(7,0)]

The length of Test B's sequence after tailReplace: 13

Test B's sequence after incrementing by 3: [(2,8),(2,7),(2,4),(7,3)]

Test B's sequence after incrementing by -1: [(2,7),(2,6),(2,3),(7,2)]

RLEImage Tests:

Length of the 2D Sequence: 4

Uncompressed 2D Sequence: [[9 9 9 9] [8 8 8 8] [7 7 7 7] [0 0 0 0]]

Compressed 2D Sequence: [(1,[(4,9)]),(1,[(4,8)]),(1,[(4,7)]),(1,[(4,0)])]

Uncompressed 2D Sequence using to2DArray: [[9 9 9 9][8 8 8 8][7 7 7 7][0 0 0 0]]

The original image is the same as the image returned by to2DArray.

Original uncompressed 2D Sequence: [[9 9 9 9] [8 8 8 8] [7 7 7 7] [0 0 0 0]]

New uncompressed 2D Sequence using to2DArray: [[1 9 9 9][2 8 8 8][3 7 7 7][4 0 0 0]]

The original image is the not same as the new image returned by to2DArray.