```
Question3)
eigenvslue1: 4
eigenvalue2: [1. 1. 1.]
eigenvslue1: 3.0
eigenvalue2: [1. 1. 1.]
Part Two
eigenvslue1: -8
eigenvalue2: [-0.5 0.25 1. ]
eigenvslue1: -5.25
eigenvalue2: [ 1.
                     0.14285714 -0.71428571]
eigenvslue1: -5.571428571428572
eigenvalue2: [-0.84615385 0.07692308 1.
                                            ]
eigenvslue1: -5.769230769230769
eigenvalue2: [1. 0.04 -0.92]
eigenvslue1: -5.88
eigenvalue2: [-0.95918367 0.02040816 1.
                                            ]
eigenvslue1: -5.938775510204081
eigenvalue2: [1. 0.01030928 -0.97938144]
Question4) Output
Original size is=64000
```

size: 41040

size: 42080

size: 44160

size: 48320

size: 56640

size: 73280

when r increases the size and the clearity increase with it.