

```
# -*- coding: utf-8 -*-
"""amr.ipynb
```

Automatically generated by Colaboratory.

Original file is located at

<https://colab.research.google.com/drive/1jYSh4Qo7Ad6o0AX2SwQAKvVKG2L7h94>

```
#
from sys import
    5 10 20 15
    8
    0 5 1 2 3
    10 50 146 347 568 750 1023 1576 2000
```

```
# Q1
for i in range(1, 10):
    for j in range(1, 10):
        if i == j:
            continue
        for k in range(1, 10):
            if k == i or k == j:
                continue
            if i + j + k == 10:
                print('Eigenvalues' 'Density of states,D(E)' min 0 max 0)
            if i + j + k == 1:
                print('Eigenvalues' 'Density of states,D(E)' min 0 max 0)
    9 6 8 7 5
```

```
# Q2
for i in range(1, 10):
    for j in range(1, 10):
        if i == j:
            continue
        for k in range(1, 10):
            if k == i or k == j:
                continue
            if i + j + k == 10:
                print('Eigenvalues' 'Density of states,D(E)' min 0 max 0)
            if i + j + k == 1:
                print('Eigenvalues' 'Density of states,D(E)' min 0 max 0)
```

```
# Q3
for i in range(1, 10):
    for j in range(1, 10):
        if i == j:
            continue
        for k in range(1, 10):
            if k == i or k == j:
                continue
            if i + j + k == 10:
                print('Eigenvalues' 'Density of states,D(E)' min 0 max 0 3)
```

```
#Q4
```

```
for i in  
    for j in
```

```
0  
'Eigenvalues' 'Density of states,  $D(E)$ ' min 0 max 0 4
```