An image can be portioned into many regions $R_1$, $R_2$, $R_3$...$R_n$

$R =$

| | | |
|---|---|---|
| $R_1$ | $R_{21}$ | $R_{22}$ |
| | $R_{23}$ | $R_{24}$ |
| $R_3$ | $R_4$ | |

**An image can be portioned into many regions $R_1$, $R_2$, $R_3$...$R_n$**

Example

$R = 7$

| | $R_{21}$ | $R_{22}$ |
|---|---|---|
| $R_1$ ✓ | $R_{23}$ | $R_{24}$ |
| $R_3$ | $R_4$ | |

$5 \times 5$

| 10 | 10 | 20 | 20 | 20 |
|---|---|---|---|---|
| 10 | 10 | 20 | 20 | 20 |
| 10 | 10 | 20 | 20 | 20 |
| 30 | 30 | 20 | 20 | 20 |
| 30 | 30 | 20 | 20 | 20 |