

Step 2: Move the overlay right k positions (according to stride parameter) and repeat above calculation for new submatrix

Input (6x6)

| | | | | | |
|---|---|---|---|---|---|
| 4 | 9 | 2 | 5 | 8 | 3 |
| 5 | 6 | 2 | 4 | 0 | 3 |
| 2 | 4 | 5 | 4 | 5 | 2 |
| 5 | 6 | 5 | 4 | 7 | 8 |
| 5 | 7 | 7 | 9 | 2 | 1 |
| 5 | 8 | 5 | 3 | 8 | 4 |

Filter

| | | |
|---|---|----|
| 1 | 0 | -1 |
| 1 | 0 | -1 |
| 1 | 0 | -1 |



Parameters

| | |
|---------|---|
| Size | 3 |
| Stride | 1 |
| Padding | 0 |

Output

| | | | |
|---|---|--|--|
| 2 | 6 | | |
| | | | |
| | | | |
| | | | |

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$$6 = (9 * 1) + (2 * 0) + (5 * -1) + (6 * 1) + (2 * 0) + (4 * -1) + (4 * 1) + (5 * 0) + (4 * -1)$$