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Id: 1920210312 6

Section: 03

Intake: 049

Course Code: CSE 477

(Assaignment)

Input:
(padding = 1)

```
0 0 0 0 0 0 0
0 0 1 1 0 1 0
0 0 1 1 0 1 0
0 0 1 1 0 1 0 *
0 0 1 1 0 1 0
0 0 1 1 0 1 0
0 0 0 0 0 0 0
```

Filter 1

```
1 0 1
1 1 1
0 0 1
```

→ convolution operation

Fe map-1

```
2 3 3 3 1
3 4 3 5 1
3 4 3 5 1
3 4 3 5 1
2 3 2 4 1
```

*

Filter 2

```
0 0 1
1 0 0
0 1 1
```

→ convolution operation

Fe map-2

```
1 2 2 2 1
2 3 2 3 1
2 3 2 3 1
2 3 2 3 1
1 1 1 2 0
```
(con)

Fe-map-1 + Fe-map-2

```
  3 5 5 5 2
= 5 7 5 8 2
  5 7 5 8 2
  5 7 5 8 2
  3 9 3 6 1
```

After (2×2) max pooling →

```
7 8 2
7 8 2
9 6 1
```
(output)