# Applications of the course

Lecture 37

Applications of the course

1. Speech synthesis
2. Convolution neural networks
3. Health applications
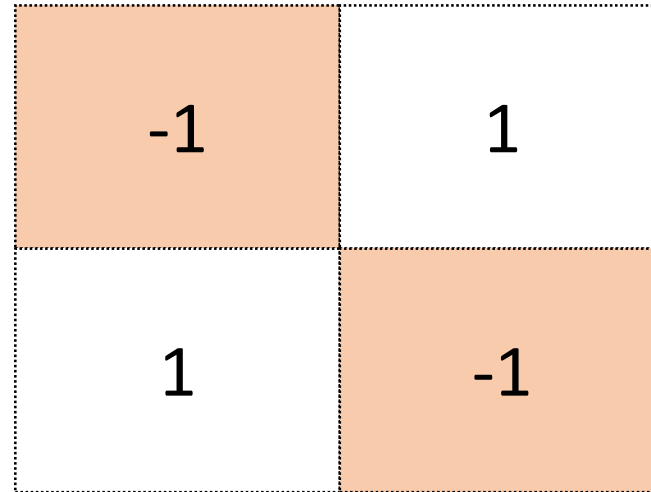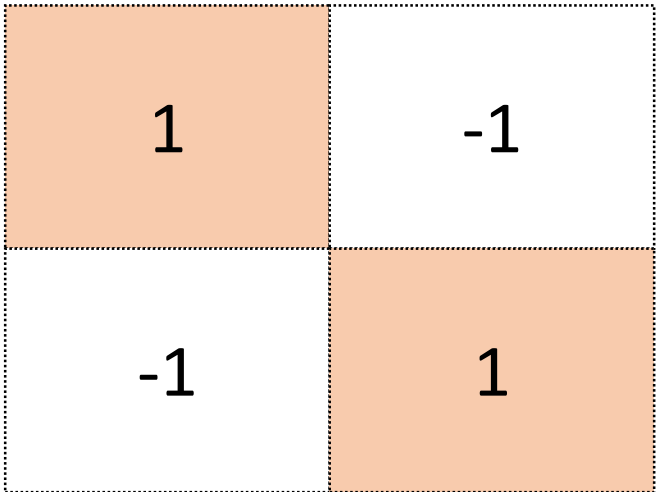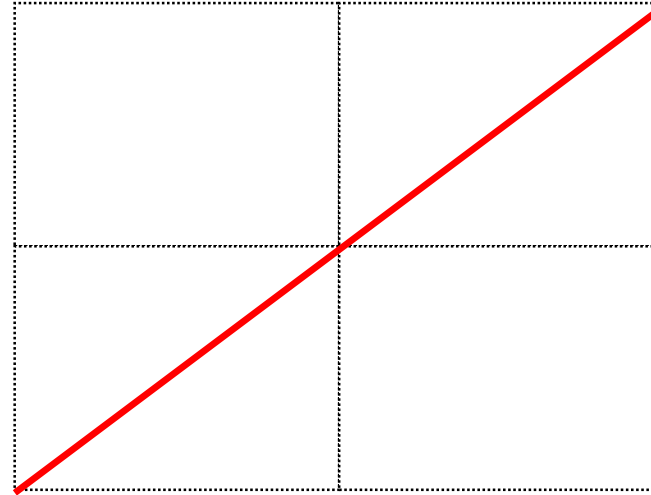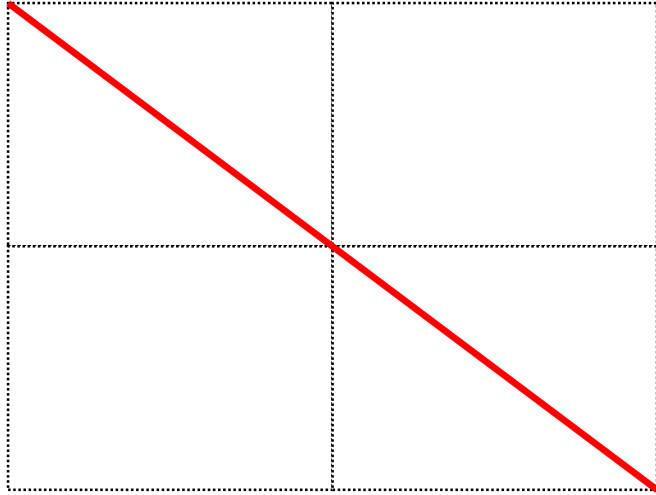4. Optics and Spatial filtering
5. And some more

Applications of the course

1. Speech synthesis
2. *Convolution neural networks*
3. Health applications
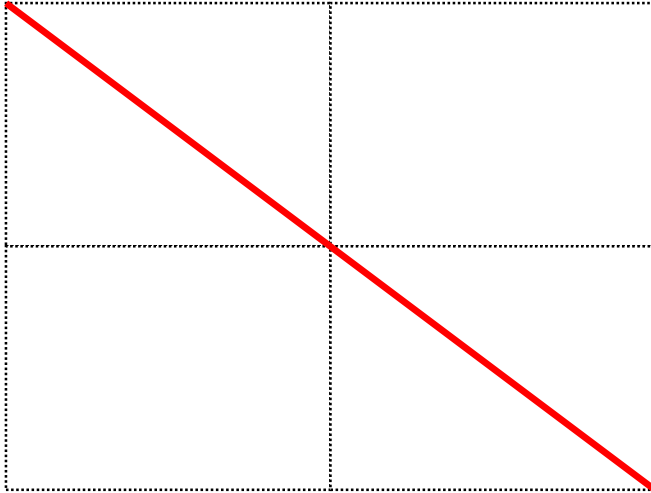4. Optics and Spatial filtering
5. And some more

Teach intelligence to Computers
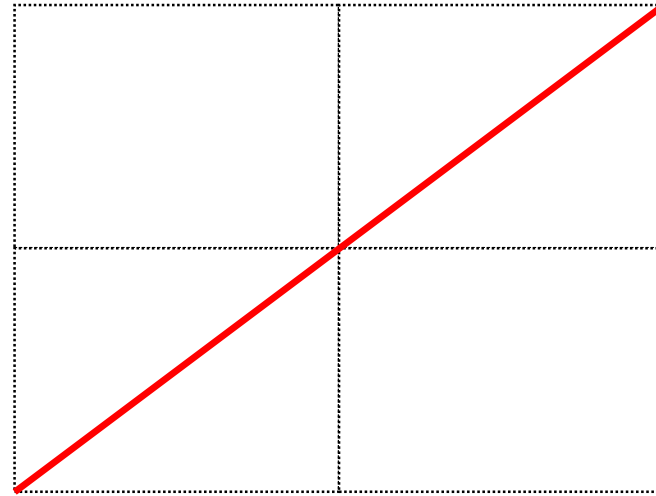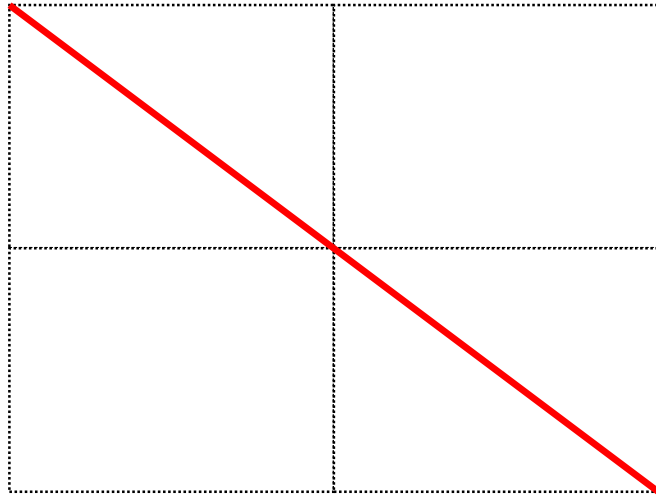
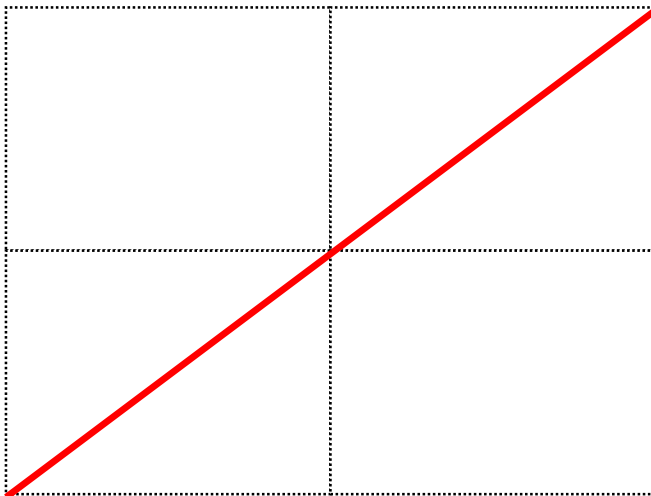# Teach intelligence to Computers

Teach intelligence to Computers

1	-1
-1	1

1	-1	-1	1

+   +   +   = 0

-1	1
1	-1

-1	1	1	-1

+   +   +   = 0

Teach intelligence to Computers

1	-1
-1	1

+	-
-	+

1	-1	-1	1

+   -   -   +   = 4

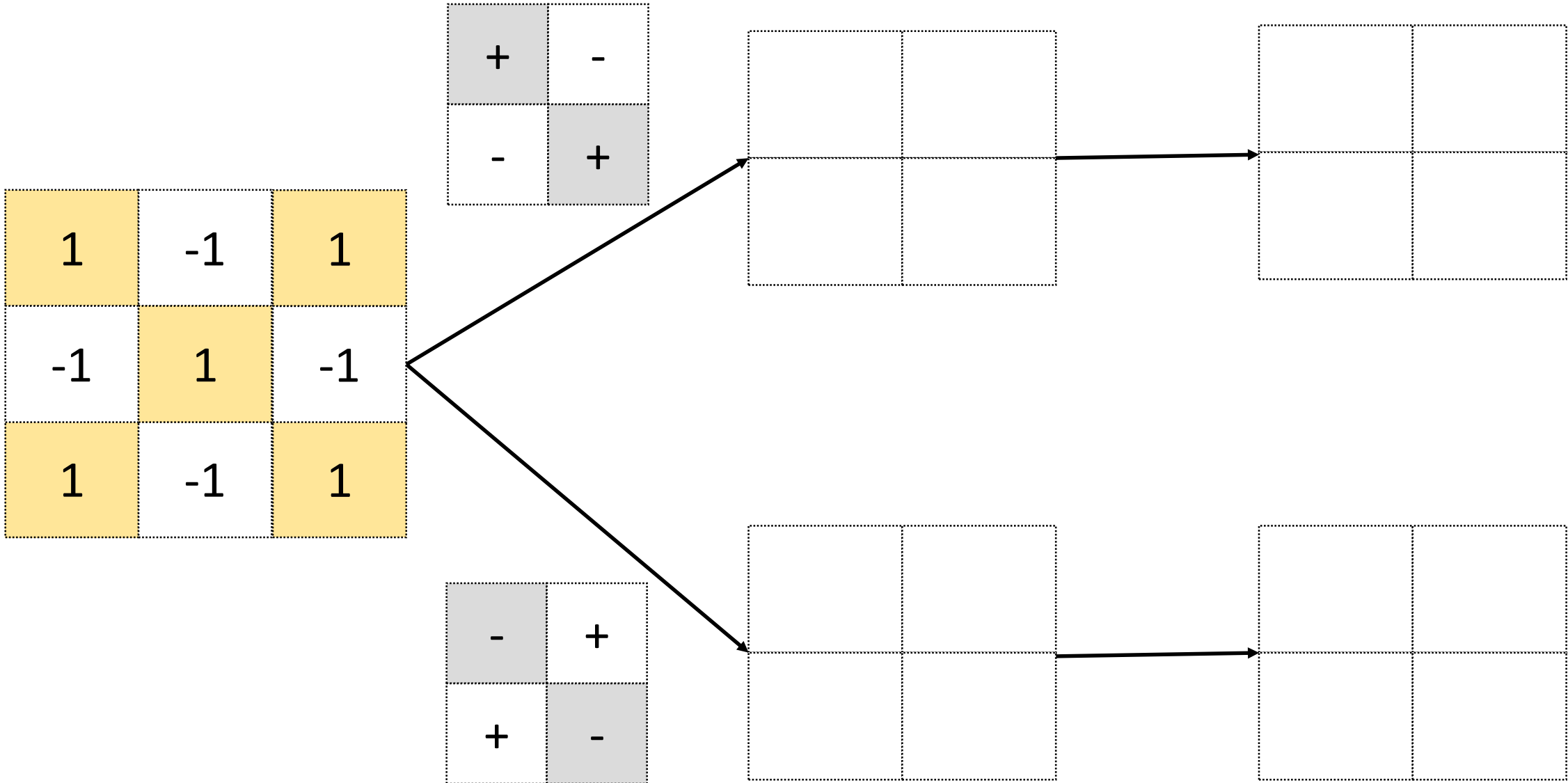|	
-1	1
1	-1

+	-
-	+

-1	1	1	-1

+   -   -   +   = -4

Teach intelligence to Computers
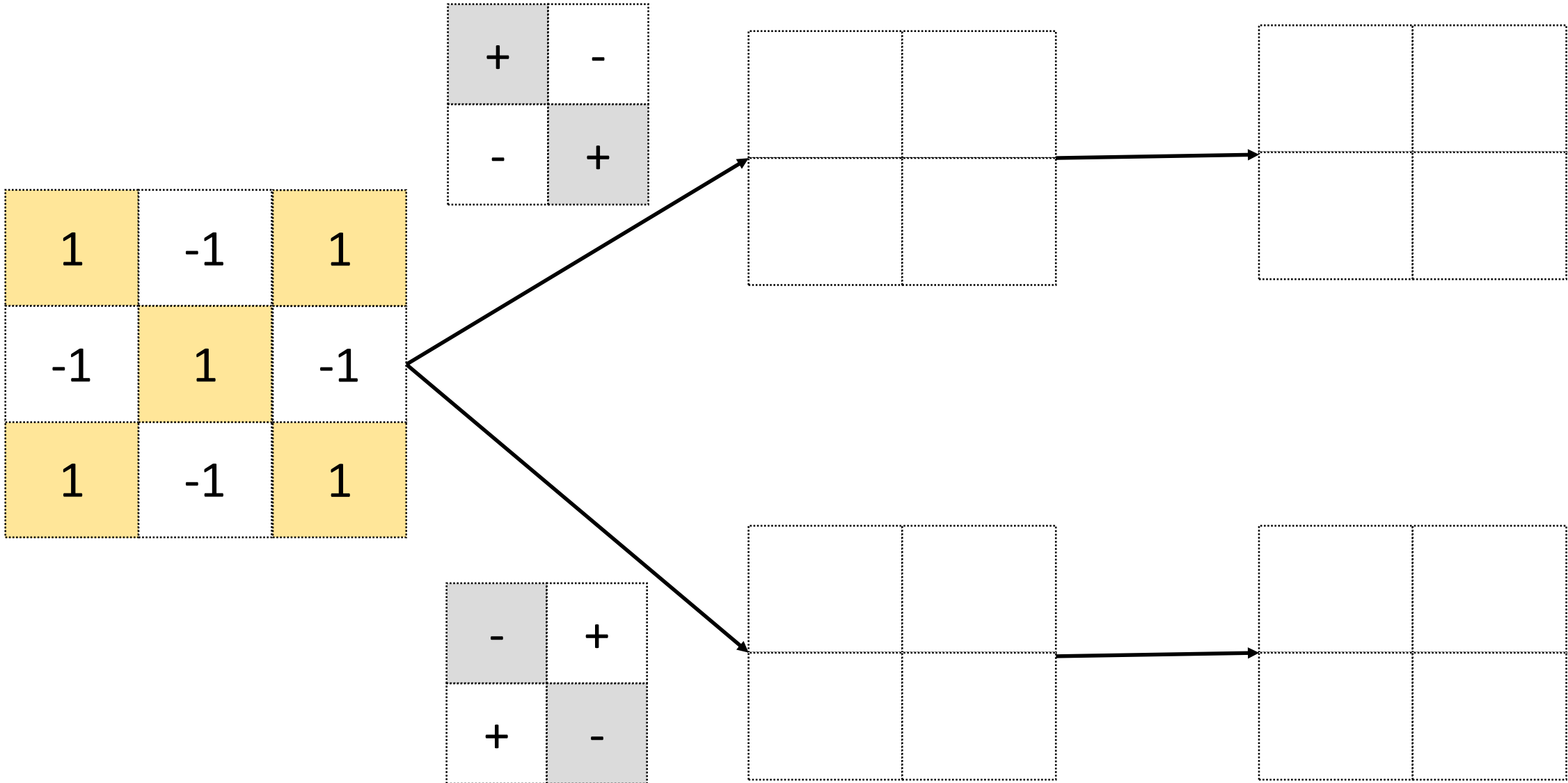
1	-1	1
-1	1	-1
1	-1	1

+	-
-	+

-	+
+	-

Teach intelligence to Computers

+	-
-	+

1	-1	1
-1	1	-1
1	-1	1

-	+
+	-

Teach intelligence to Computers

Teach intelligence to Computers

+	-
-	+

+1	**-**-1	1
--1	**+**1	-1
1	-1	1

4	

-	+
+	-

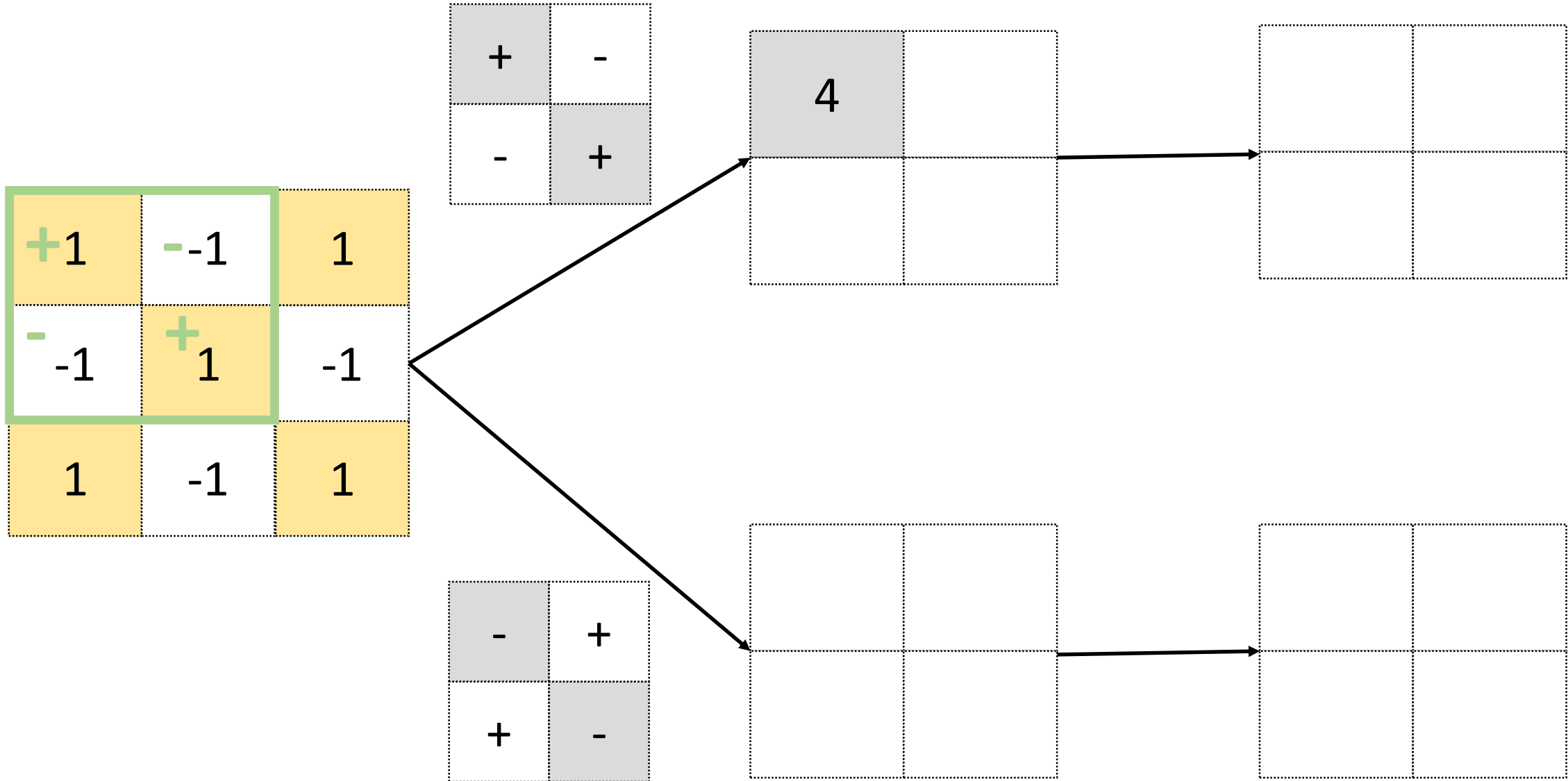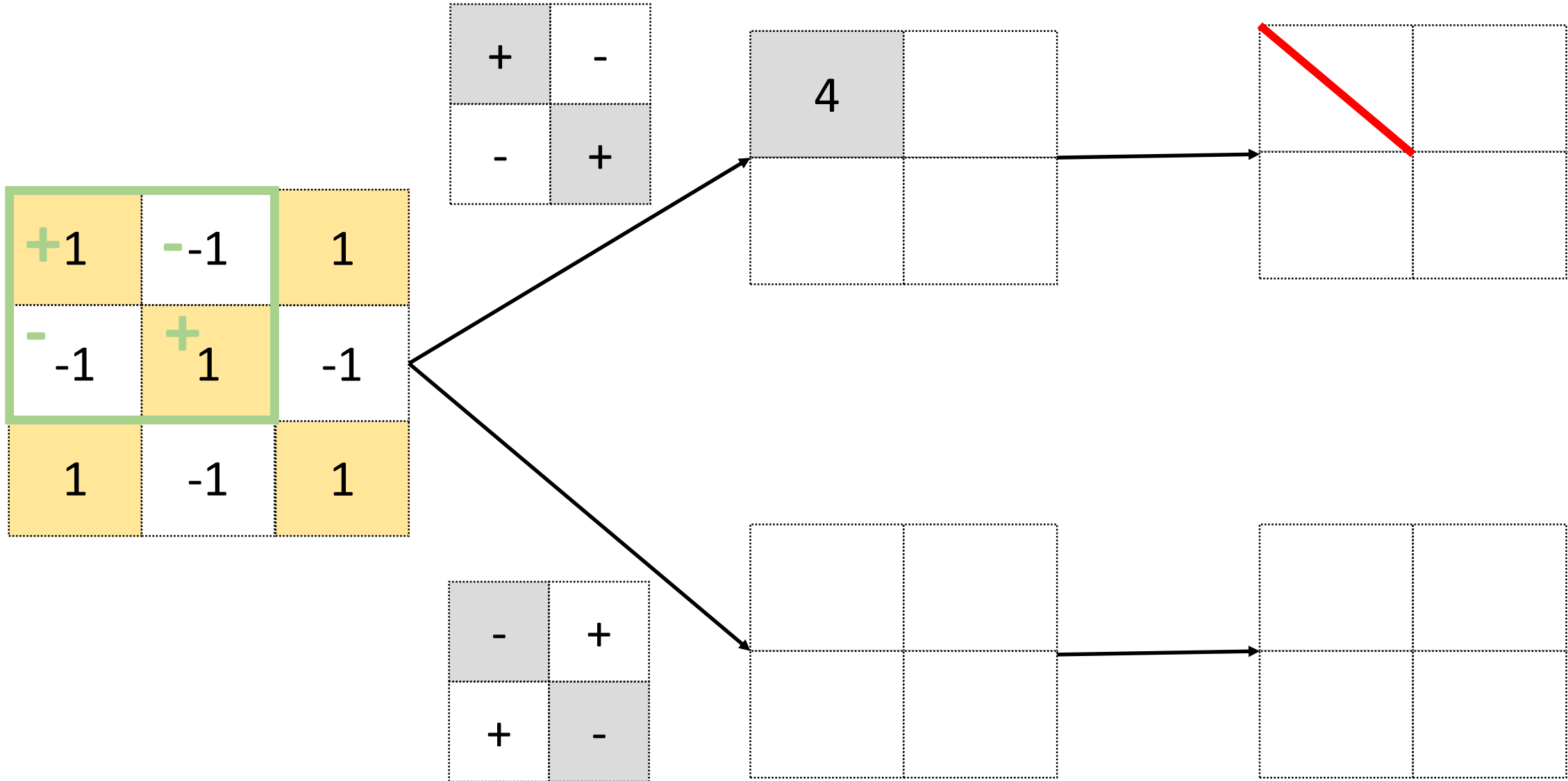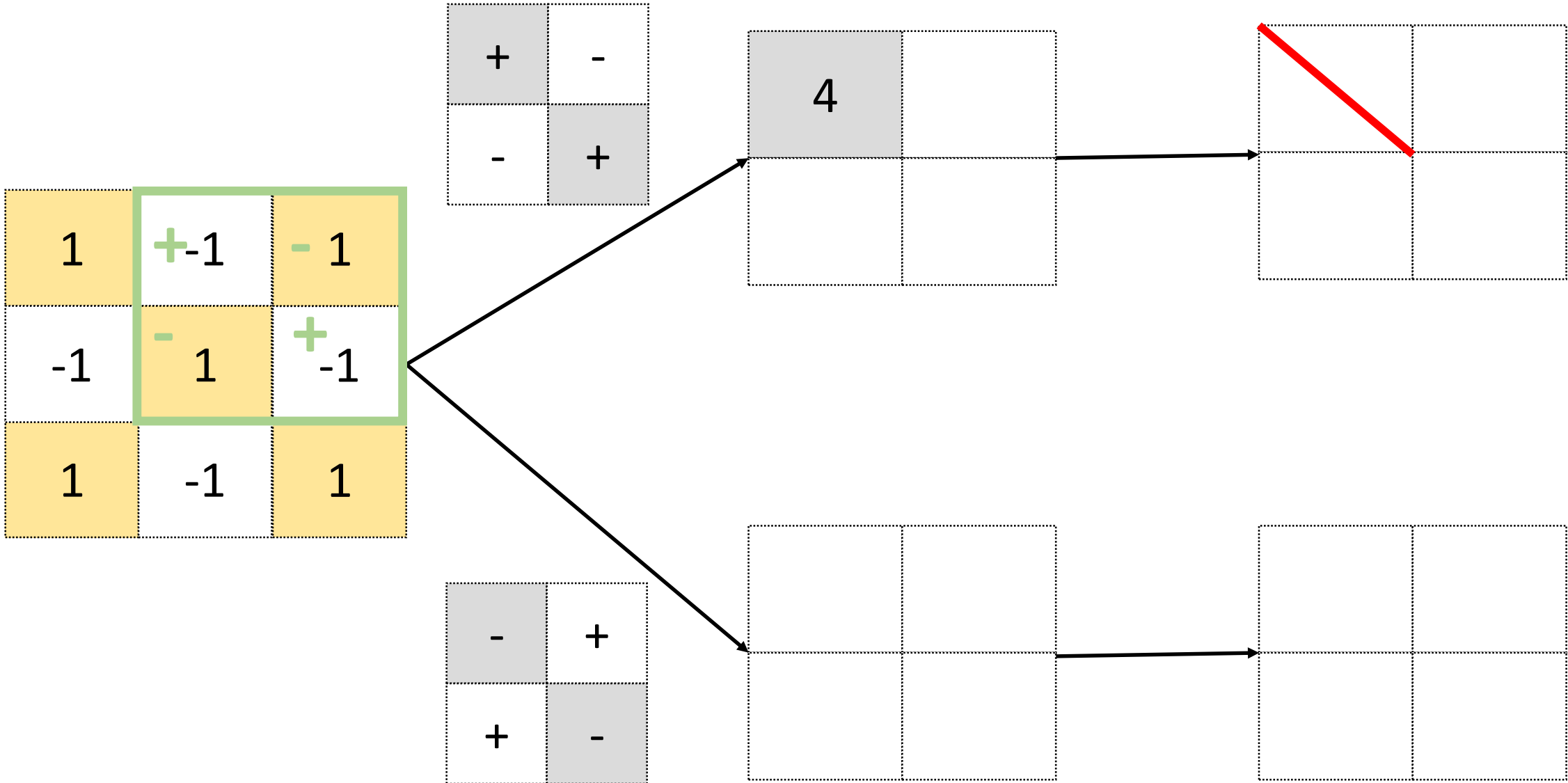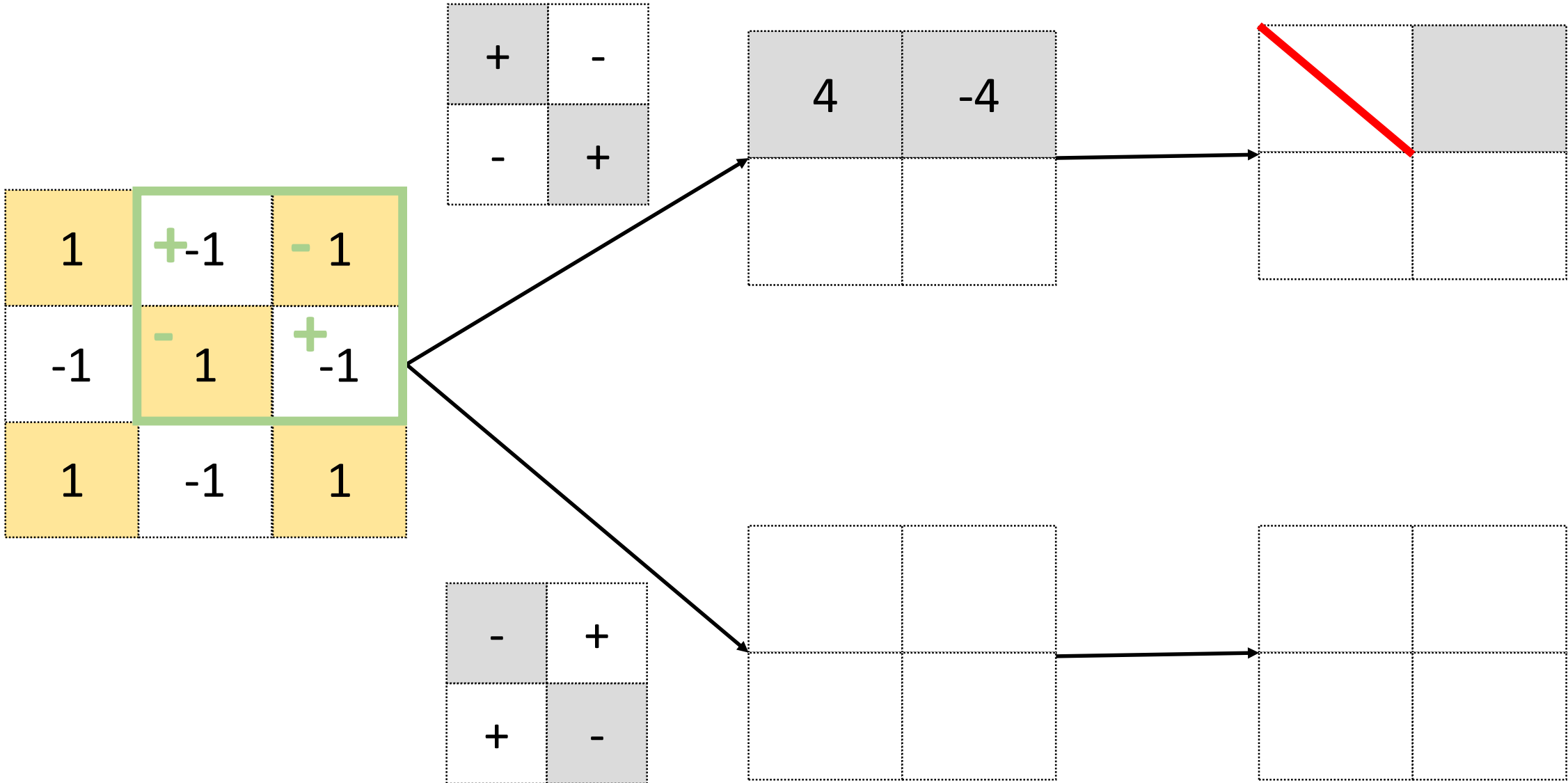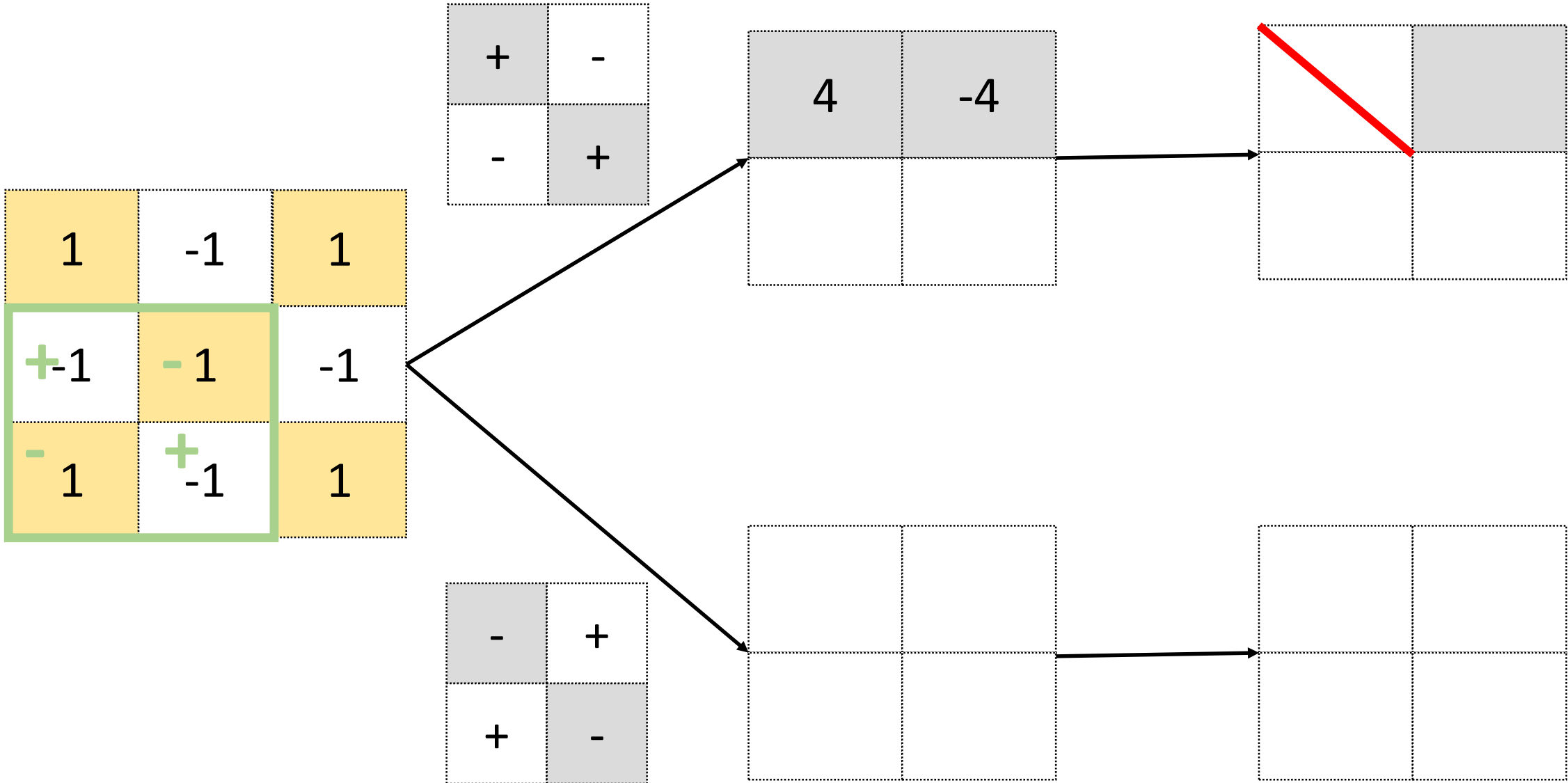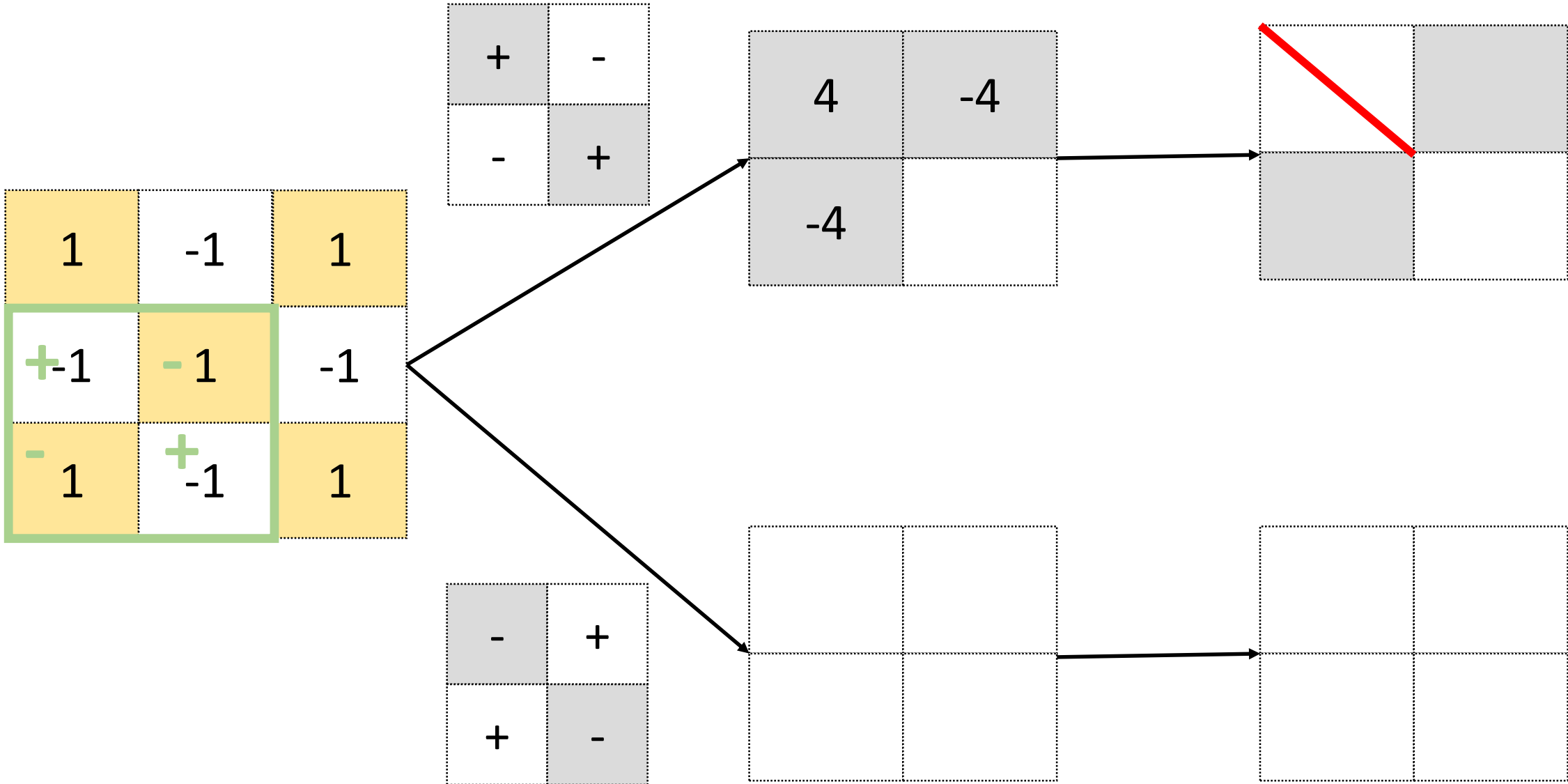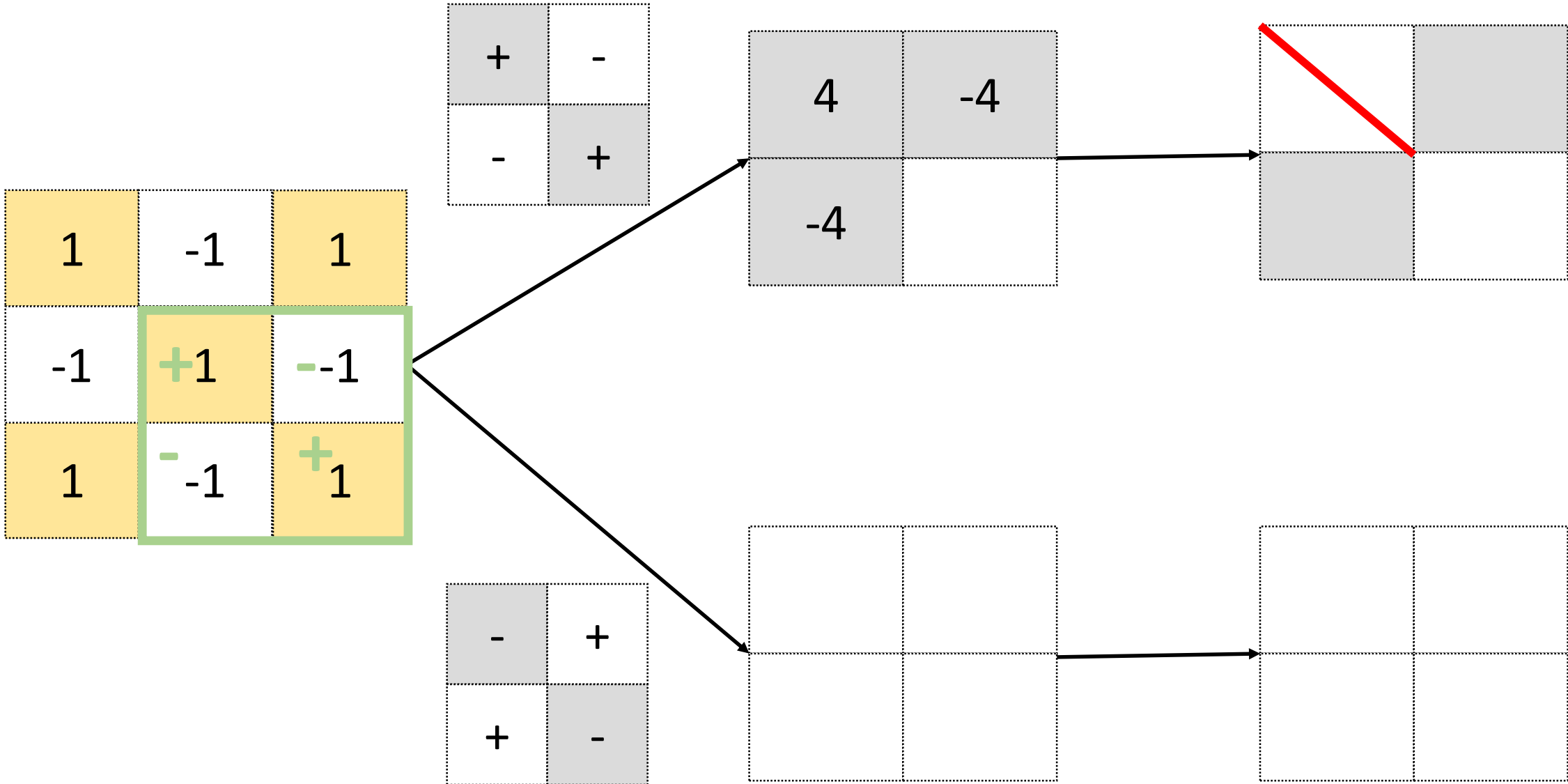|	

Teach intelligence to Computers

Teach intelligence to Computers

Teach intelligence to Computers

Teach intelligence to Computers

+	-	
	-	+

4	-4

1	-1	1
+-1	- 1	-1
- 1	+ -1	1

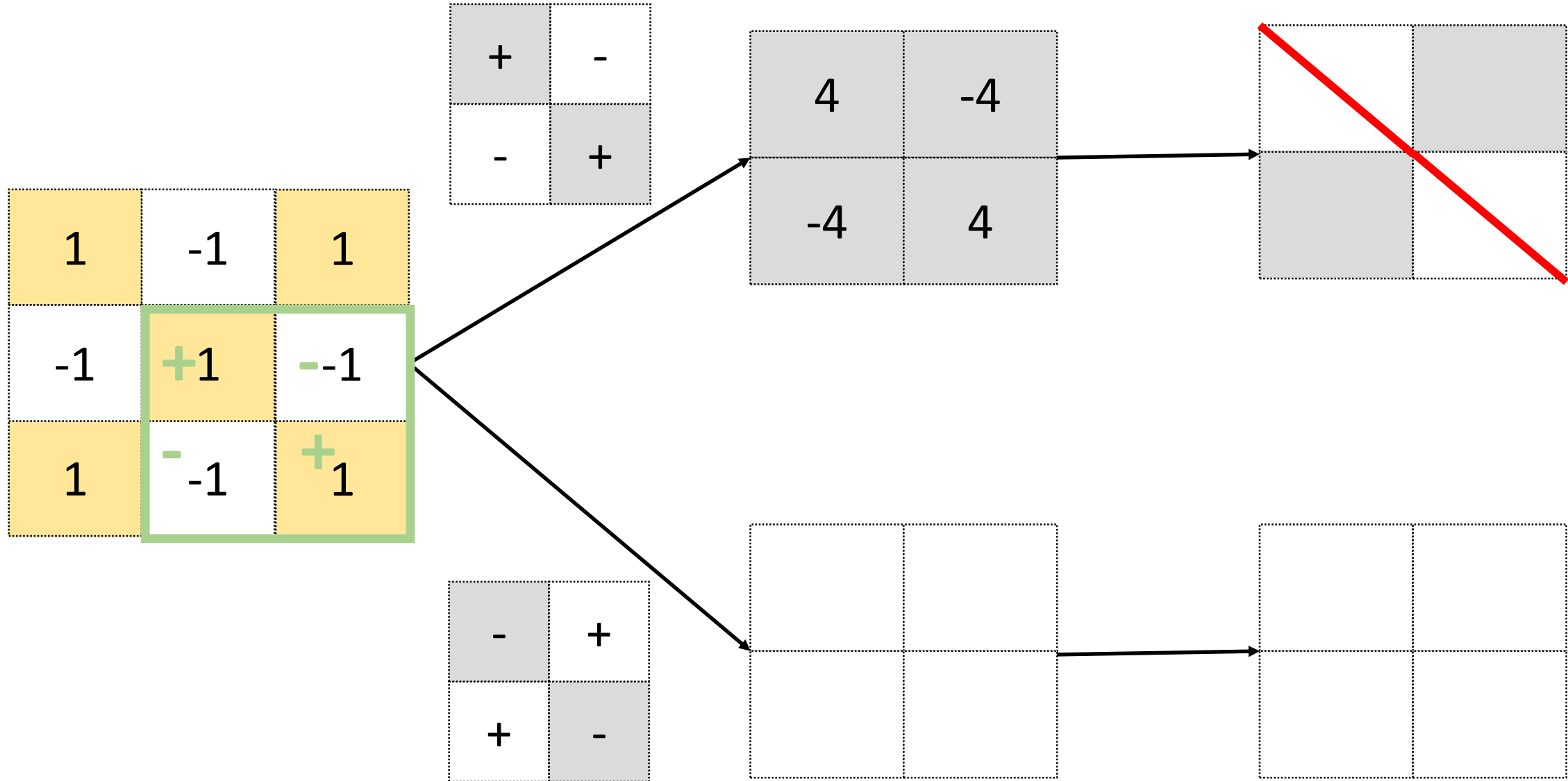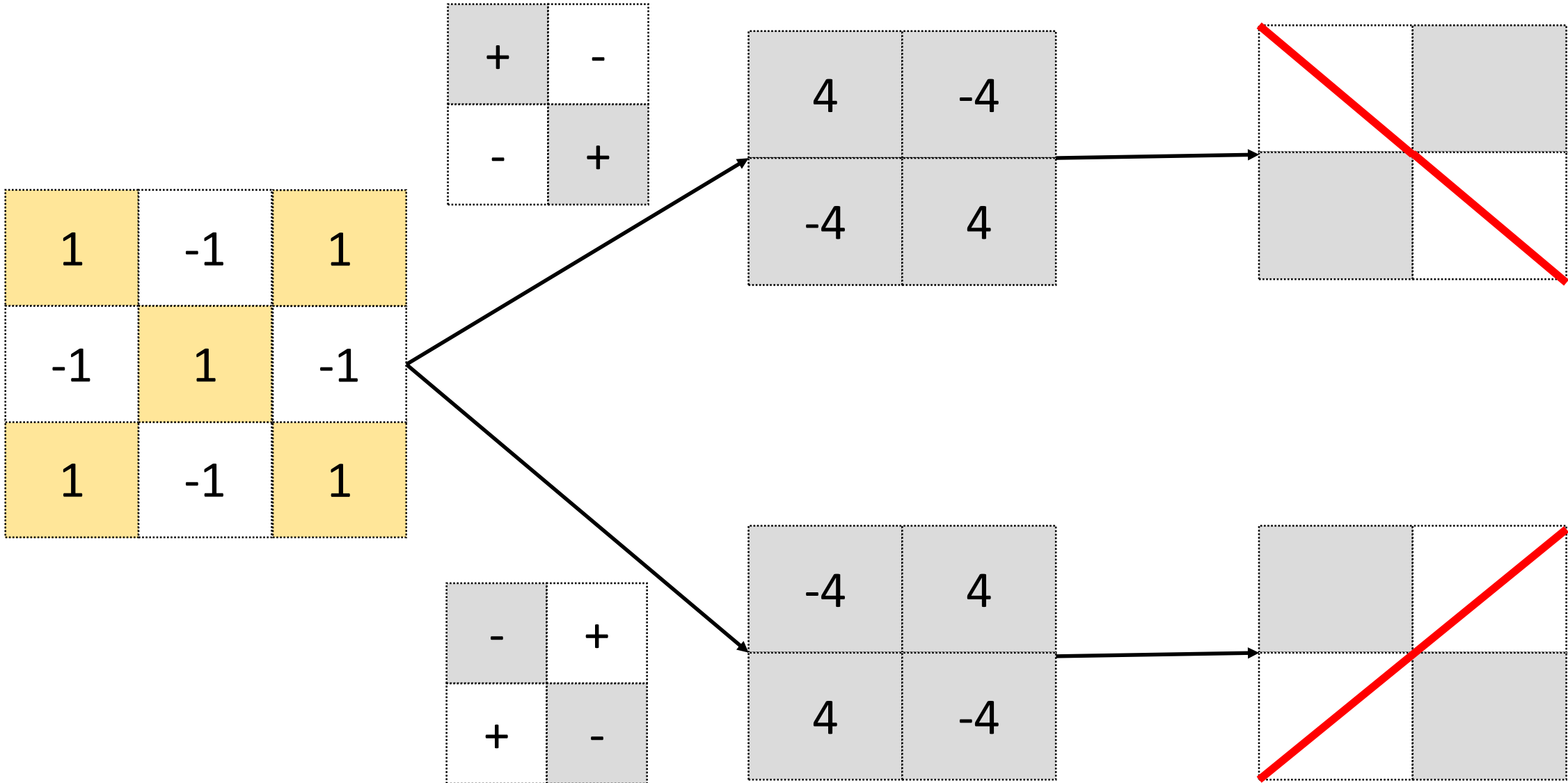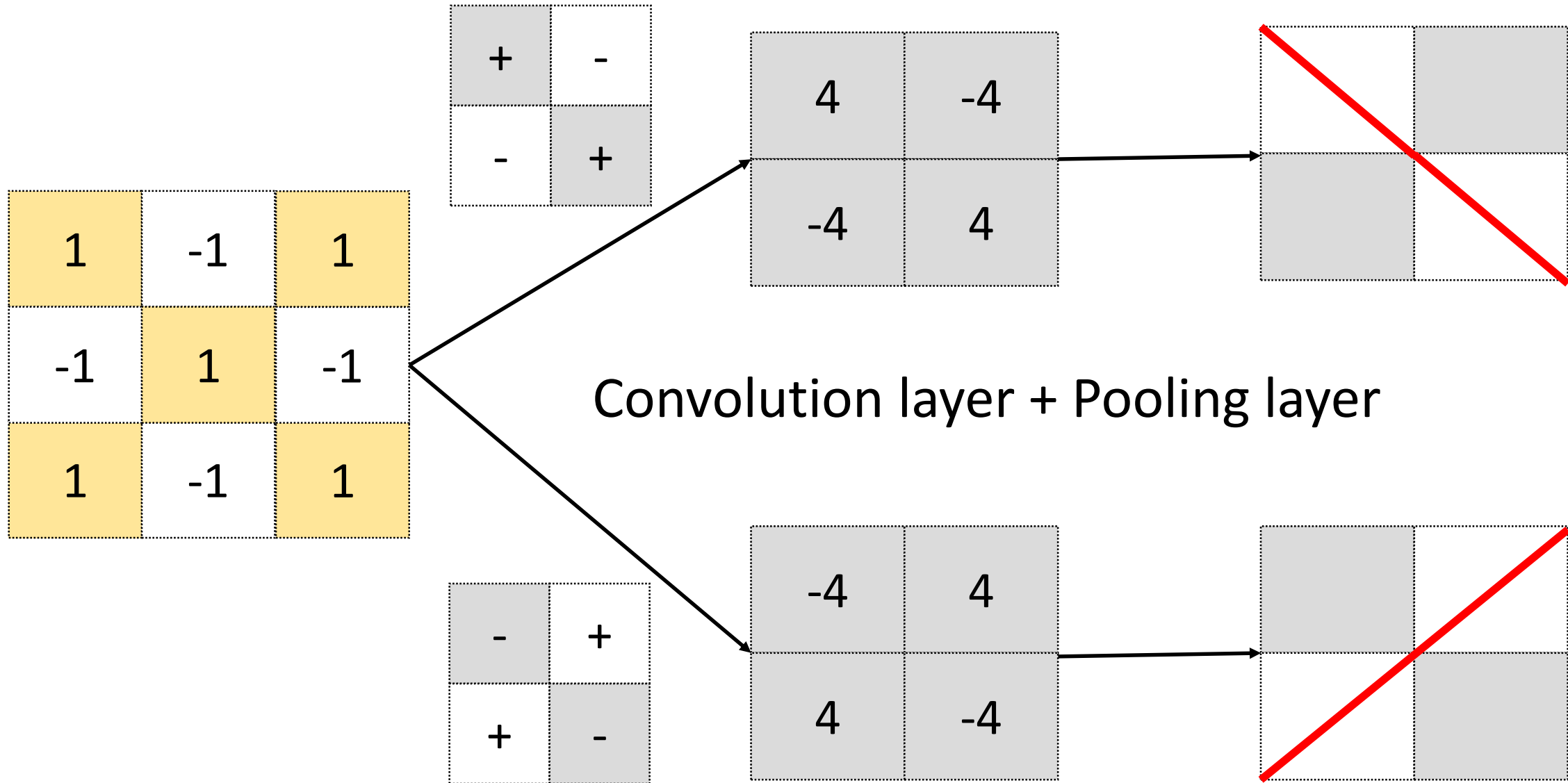|		
-	+	
	+	-

Teach intelligence to Computers

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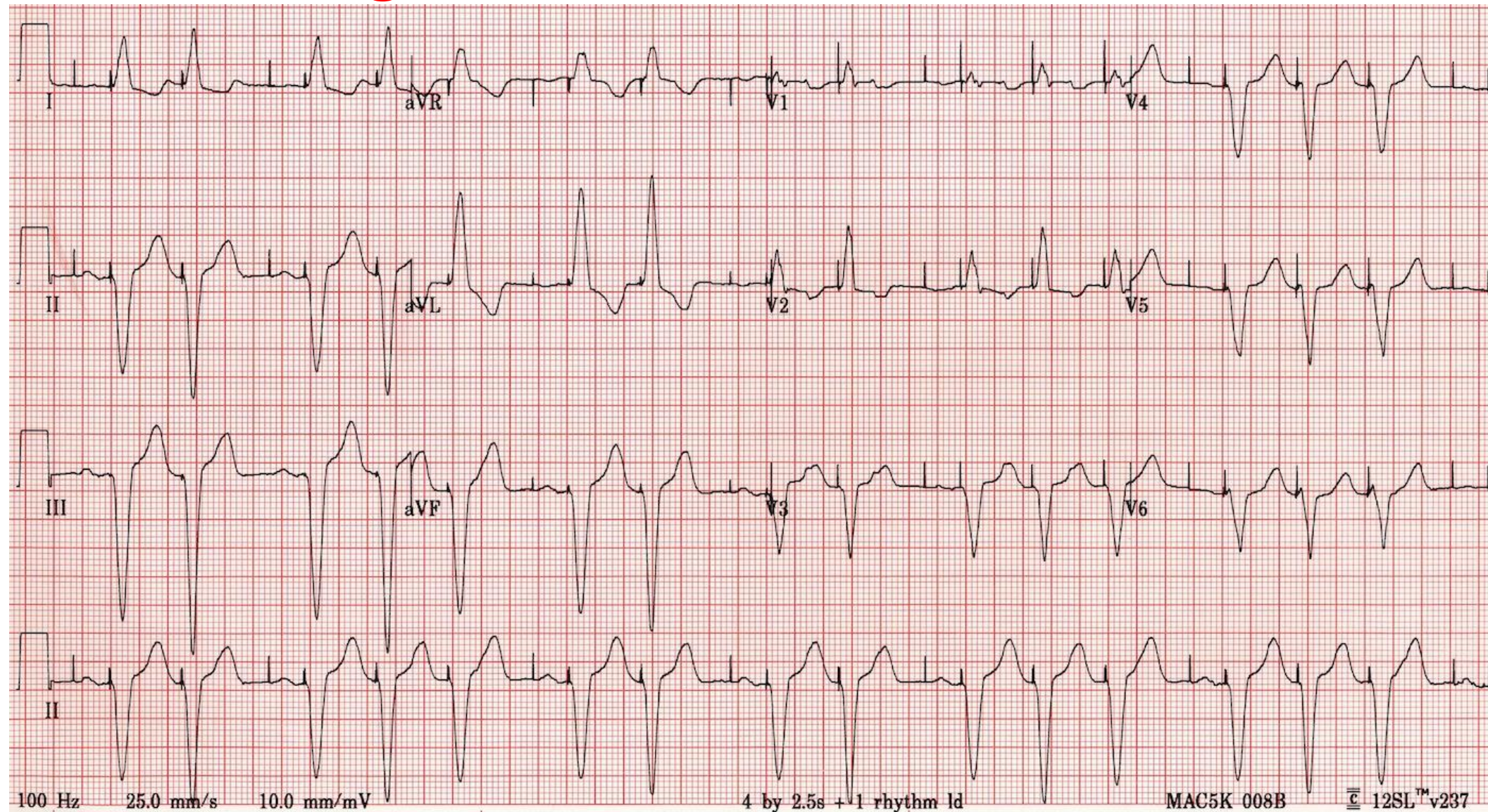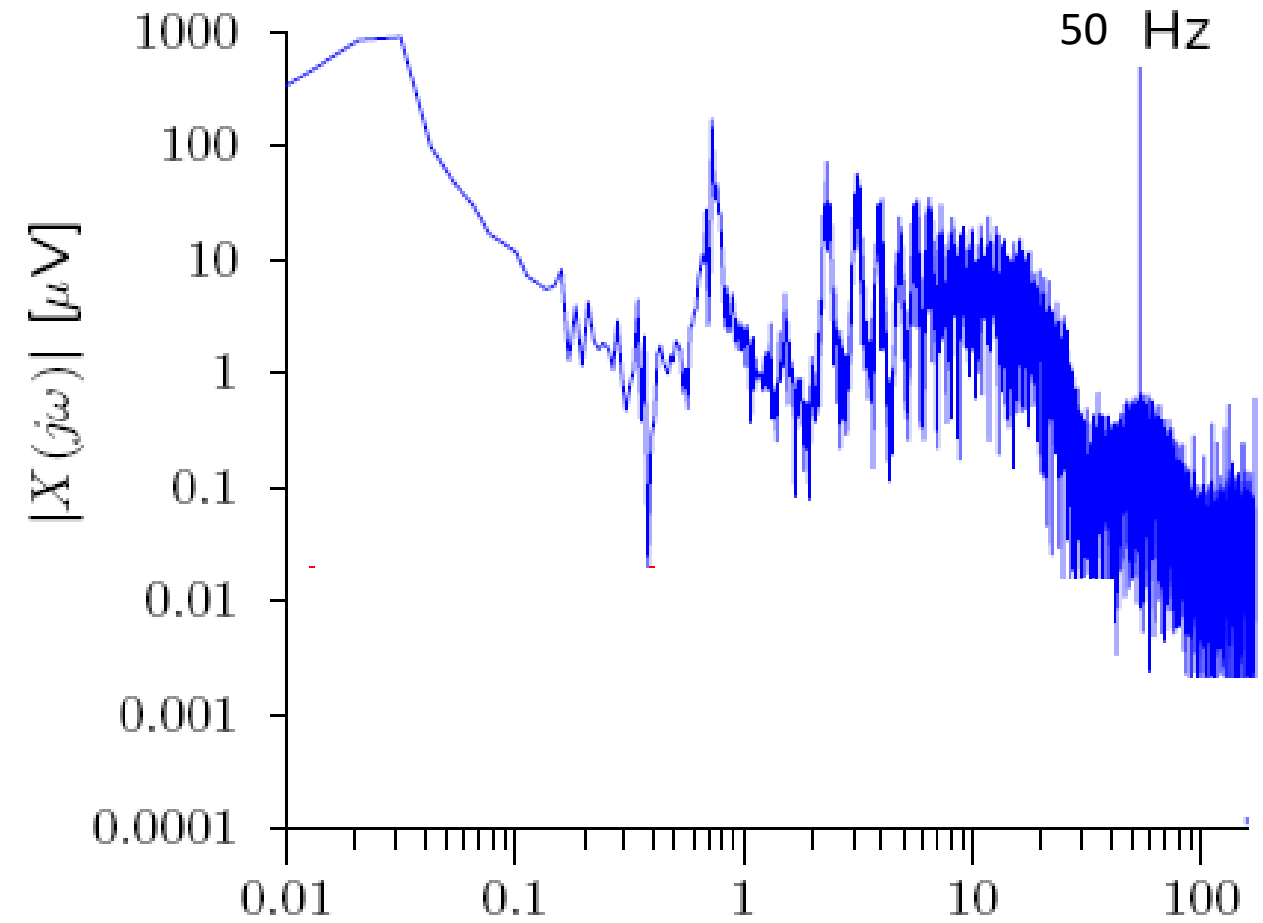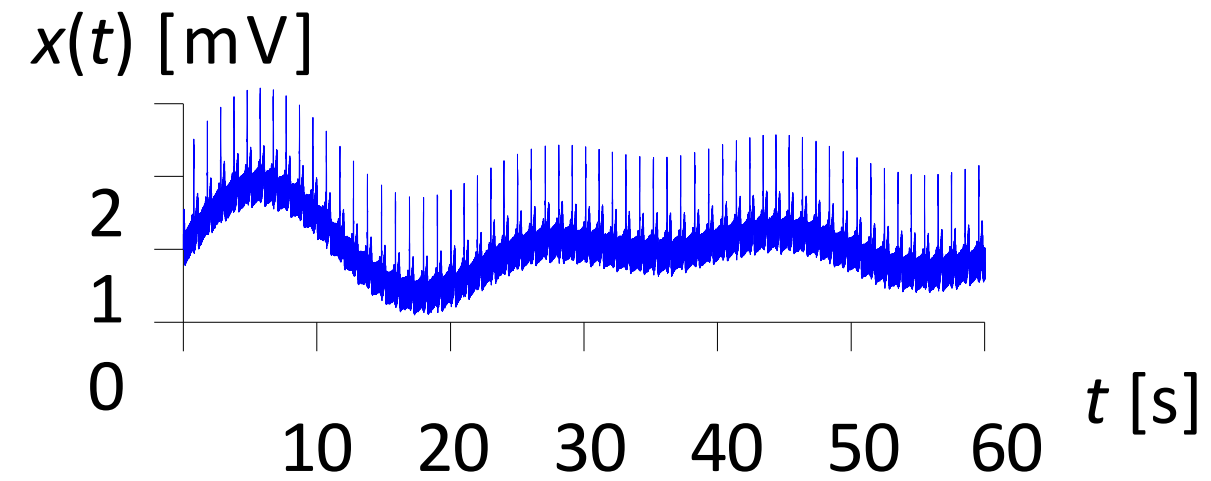Convolution layer + Pooling layer

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Electrocardiogram

Electrocardiogram

Electrocardiogram