Name:		

Below you will see, reading from left to right, an image, a 3×3 mask, and a blank 'image' grid of the same size as your image. Your task is to calculate the convolution of the image with the mask, completing the blank grid with the appropriate values. Please show your working below for the top left-hand pixel of your image. You can use the remainder of the page for your calculations if you wish too. Marks are awarded as shown in the table at the foot of the page.

5	4	2	1	3	2	4
1	2	3	5	3	1	4
3	1	5	5	4	5	1
4	5	4	2	0	2	3
5	5	2	5	1	4	3
0	4	2	4	4	0	2
5	1	1	5	1	3	1

IM	AGE	(SE	ED:	0)

0	1	0	1				
1	1	1					
0	1 MAS	<u>О</u> К	J				

CATEGORY	AVAILABLE	Awarded
approach	/12	
accuracy	/13	
Total	/25	

Name:		

Below you will see, reading from left to right, an image, a 3×3 mask, and a blank 'image' grid of the same size as your image. Your task is to calculate the convolution of the image with the mask, completing the blank grid with the appropriate values. Please show your working below for the top left-hand pixel of your image. You can use the remainder of the page for your calculations if you wish too. Marks are awarded as shown in the table at the foot of the page.

0	5	4	1	2	2	3
4	0	0	5	2	4	0
2	4	1	5	5	0	0
3	5	2	1	2	0	1
2	2	1	1	1	2	1
0	5	3	3	1	5	5
0	1	4	4	5	2	4

IMAGE (SEED: 1)

0	1	0				
1	1	1				
0	1	0				
MASK						

			DECLUT				

CATEGORY	Available	Awarded
approach	/12	
accuracy	/13	
Total	/25	

Name:		

Below you will see, reading from left to right, an image, a 3×3 mask, and a blank 'image' grid of the same size as your image. Your task is to calculate the convolution of the image with the mask, completing the blank grid with the appropriate values. Please show your working below for the top left-hand pixel of your image. You can use the remainder of the page for your calculations if you wish too. Marks are awarded as shown in the table at the foot of the page.

5	5	0	0	5	4	4
1	3	3	3	0	2	2
4	5	5	3	2	1	0
0	2	1	2	5	3	3
1	0	1	0	3	5	4
1	5	4	4	5	4	4
2	5	5	0	4	4	2

IMAGE (SEED: 2)

0	1	0			
1	1	1			
0	1	0			
MASK					

	Респп		

CATEGORY	Available	Awarded
approach	/12	
accuracy	/13	
Total	/25	

Name:		

Below you will see, reading from left to right, an image, a 3×3 mask, and a blank 'image' grid of the same size as your image. Your task is to calculate the convolution of the image with the mask, completing the blank grid with the appropriate values. Please show your working below for the top left-hand pixel of your image. You can use the remainder of the page for your calculations if you wish too. Marks are awarded as shown in the table at the foot of the page.

1	3	2	3	3	0	0
5	1	1	5	2	5	2
3	0	3	5	3	4	4
0	4	3	1	0	5	2
4	5	4	5	2	4	2
5	5	0	0	1	5	2
3	1	3	2	2	3	3

IMAGE (SEED: 3)

0	1	0			
1	1	1			
0	1	0			
MASK					

 	1	Dreitir	1	1	I.

CATEGORY	AVAILABLE	AWARDED
approach	/12	
accuracy	/13	
Total	/25	

Name:		

Below you will see, reading from left to right, an image, a 3×3 mask, and a blank 'image' grid of the same size as your image. Your task is to calculate the convolution of the image with the mask, completing the blank grid with the appropriate values. Please show your working below for the top left-hand pixel of your image. You can use the remainder of the page for your calculations if you wish too. Marks are awarded as shown in the table at the foot of the page.

1	0	2	0	0	2	5
4	4	1	3	1	1	0
1	5	4	4	4	1	1
3	4	5	5	0	3	4
3	1	2	0	5	5	3
1	5	3	5	5	3	2
3	2	0	1	4	0	0

IMAGE (SEED: 4)

0	1	0			
1	1	1			
0	1	0			
MASK					

	Респп		

CATEGORY	Available	Awarded
approach	/12	
accuracy	/13	
Total	/25	

Name:		

Below you will see, reading from left to right, an image, a 3×3 mask, and a blank 'image' grid of the same size as your image. Your task is to calculate the convolution of the image with the mask, completing the blank grid with the appropriate values. Please show your working below for the top left-hand pixel of your image. You can use the remainder of the page for your calculations if you wish too. Marks are awarded as shown in the table at the foot of the page.

3	4	4	5	4	5	0
2	5	3	5	0	2	1
3	3	0	1	1	5	4
0	4	0	3	0	0	5
1	1	5	5	1	5	3
4	1	5	4	5	5	1
2	0	0	0	1	3	0

IM	IAGE	(SE	ED:	5)

0	1	0			
1	1	1			
0	1	0			
MASK					

	 DECLUT	·	·

CATEGORY	AVAILABLE	Awarded
approach	/12	
accuracy	/13	
Total	/25	

Name:		

Below you will see, reading from left to right, an image, a 3×3 mask, and a blank 'image' grid of the same size as your image. Your task is to calculate the convolution of the image with the mask, completing the blank grid with the appropriate values. Please show your working below for the top left-hand pixel of your image. You can use the remainder of the page for your calculations if you wish too. Marks are awarded as shown in the table at the foot of the page.

4	4	2	1	0	3	2
4	2	4	1	4	4	2
3	4	1	3	4	1	4
4	5	2	0	4	4	2
0	1	3	1	5	3	1
3	2	5	5	3	3	4
4	5	0	2	3	1	3

IMAGE (S	SEED: 6)
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0	1	0			
1	1	1			
0	1	0			
MASK					

	Вестит		

CATEGORY	Available	Awarded
approach	/12	
accuracy	/13	
Total	/25	

Name:		

Below you will see, reading from left to right, an image, a 3×3 mask, and a blank 'image' grid of the same size as your image. Your task is to calculate the convolution of the image with the mask, completing the blank grid with the appropriate values. Please show your working below for the top left-hand pixel of your image. You can use the remainder of the page for your calculations if you wish too. Marks are awarded as shown in the table at the foot of the page.

1	0	3	0	3	2	0
3	0	2	0	0	2	4
0	1	3	5	3	2	5
0	5	1	0	0	1	4
1	3	3	2	3	0	0
1	4	2	1	3	2	1
4	4	1	3	3	5	4

IMAGE (SEED: 7)

0	1	0	
1	1	1	
0	1	0	
ľ	MAS:	K	

		Droug				

CATEGORY	AVAILABLE	AWARDED
approach	/12	
accuracy	/13	
Total	/25	

Name:		

Below you will see, reading from left to right, an image, a 3×3 mask, and a blank 'image' grid of the same size as your image. Your task is to calculate the convolution of the image with the mask, completing the blank grid with the appropriate values. Please show your working below for the top left-hand pixel of your image. You can use the remainder of the page for your calculations if you wish too. Marks are awarded as shown in the table at the foot of the page.

1	5	0	4	0	1	5
1	3	2	2	2	1	4
0	1	0	1	2	5	2
0	1	5	0	3	2	3
2	4	2	3	5	3	0
0	5	2	1	5	3	4
5	1	2	5	0	4	0

IMAGE (SEED: 8)

0	1	0	
1	1	1	
0	1	0	
N	√[AS]	K	

	Draw		

CATEGORY	AVAILABLE	Awarded
approach	/12	
accuracy	/13	
Total	/25	

Name:		

Below you will see, reading from left to right, an image, a 3×3 mask, and a blank 'image' grid of the same size as your image. Your task is to calculate the convolution of the image with the mask, completing the blank grid with the appropriate values. Please show your working below for the top left-hand pixel of your image. You can use the remainder of the page for your calculations if you wish too. Marks are awarded as shown in the table at the foot of the page.

2	2	0	5	0	3	5
0	3	3	0	2	4	2
4	0	1	0	3	5	3
4	2	4	0	1	4	4
2	0	1	1	1	4	1
5	5	0	2	2	0	2
5	0	3	0	3	5	1

IMAGE (SEED: 9)

0	1	0			
1	1	1			
0	1	0			
MASK					

	 DECLUT	·	·

CATEGORY	Available	Awarded
approach	/12	
accuracy	/13	
Total	/25	

Name:		

Below you will see, reading from left to right, an image, a 3×3 mask, and a blank 'image' grid of the same size as your image. Your task is to calculate the convolution of the image with the mask, completing the blank grid with the appropriate values. Please show your working below for the top left-hand pixel of your image. You can use the remainder of the page for your calculations if you wish too. Marks are awarded as shown in the table at the foot of the page.

3	2	3	1	4	4	3
0	3	1	1	5	5	0
5	3	2	1	4	2	4
3	0	4	5	5	3	0
0	0	5	1	2	5	1
3	2	0	3	5	0	1
2	0	2	4	3	3	5

IMAGE (SEED: 10)

0	1	0		
1	1	1		
0	1	0		
MASK				

	Droum		

CATEGORY	Available	Awarded
approach	/12	
accuracy	/13	
Total	/25	

Name:		

Below you will see, reading from left to right, an image, a 3×3 mask, and a blank 'image' grid of the same size as your image. Your task is to calculate the convolution of the image with the mask, completing the blank grid with the appropriate values. Please show your working below for the top left-hand pixel of your image. You can use the remainder of the page for your calculations if you wish too. Marks are awarded as shown in the table at the foot of the page.

2	3	5	2	3	3	1
3	3	4	0	1	0	4
4	0	5	5	3	3	0
0	3	0	1	1	0	2
2	5	3	3	2	3	2
1	5	5	5	4	1	1
1	0	4	2	5	2	5

IMAGE (SEED: 11)

0	1	0			
1	1	1			
0	1	0			
MASK					

			DECLUT				

CATEGORY	Available	Awarded
approach	/12	
accuracy	/13	
Total	/25	

Name:		

Below you will see, reading from left to right, an image, a 3×3 mask, and a blank 'image' grid of the same size as your image. Your task is to calculate the convolution of the image with the mask, completing the blank grid with the appropriate values. Please show your working below for the top left-hand pixel of your image. You can use the remainder of the page for your calculations if you wish too. Marks are awarded as shown in the table at the foot of the page.

2	3	3	0	0	2	1
4	4	3	3	3	0	2
0	5	0	4	0	4	2
2	5	0	0	5	3	0
5	5	0	2	0	1	3
0	4	0	1	4	2	2
3	2	2	0	4	5	5

IMAGE (SEED: 12)

0	1	0				
1	1	1				
0	1	0				
MASK						

		Респп					

CATEGORY	Available	Awarded
approach	/12	
accuracy	/13	
Total	/25	

Name:		

Below you will see, reading from left to right, an image, a 3×3 mask, and a blank 'image' grid of the same size as your image. Your task is to calculate the convolution of the image with the mask, completing the blank grid with the appropriate values. Please show your working below for the top left-hand pixel of your image. You can use the remainder of the page for your calculations if you wish too. Marks are awarded as shown in the table at the foot of the page.

1	4	4	5	1	1	0
1	4	0	3	1	1	2
5	3	0	1	0	5	4
4	4	4	5	4	1	5
2	4	3	2	2	2	1
0	4	4	5	4	3	4
0	4	2	1	1	3	1

IMAGE	(SEED:	13)
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0	1	0]				
1	1	1					
0	1 MAS		J				

CATEGORY	Available	Awarded
approach	/12	
accuracy	/13	
Total	/25	

Name:		

Below you will see, reading from left to right, an image, a 3×3 mask, and a blank 'image' grid of the same size as your image. Your task is to calculate the convolution of the image with the mask, completing the blank grid with the appropriate values. Please show your working below for the top left-hand pixel of your image. You can use the remainder of the page for your calculations if you wish too. Marks are awarded as shown in the table at the foot of the page.

4	3	5	1	1	4
1	4	2	4	0	1
2	1	4	3	0	3
0	3	0	2	0	1
2	5	2	3	5	4
3	3	1	0	5	3
2	1	4	3	0	4
	0 2 3	1 4 2 1 0 3 2 5 3 3	1 4 2 2 1 4 0 3 0 2 5 2 3 3 1	1 4 2 4 2 1 4 3 0 3 0 2 2 5 2 3 3 3 1 0	1 4 2 4 0 2 1 4 3 0 0 3 0 2 0 2 5 2 3 5 3 3 1 0 5

IMAGE (SEED: 14)

0	1	0			
1	1	1			
0	1	0			
MASK					

	 DECLUT	·	·

CATEGORY	Available	Awarded
approach	/12	
accuracy	/13	
Total	/25	

Name:		

Below you will see, reading from left to right, an image, a 3×3 mask, and a blank 'image' grid of the same size as your image. Your task is to calculate the convolution of the image with the mask, completing the blank grid with the appropriate values. Please show your working below for the top left-hand pixel of your image. You can use the remainder of the page for your calculations if you wish too. Marks are awarded as shown in the table at the foot of the page.

5	0	4	0	5	0	5
4	5	5	1	2	4	1
1	1	5	5	4	1	5
3	1	2	2	0	3	2
3	5	3	2	5	5	2
5	0	0	1	5	4	4
1	2	5	0	0	0	2

IMAGE (SEED: 15)

0	1					
U	1	U				
1	1	1				
0	1	0				
MASK						

	Droum		

CATEGORY	AVAILABLE	Awarded
approach	/12	
accuracy	/13	
Total	/25	

Name:		

Below you will see, reading from left to right, an image, a 3×3 mask, and a blank 'image' grid of the same size as your image. Your task is to calculate the convolution of the image with the mask, completing the blank grid with the appropriate values. Please show your working below for the top left-hand pixel of your image. You can use the remainder of the page for your calculations if you wish too. Marks are awarded as shown in the table at the foot of the page.

2	2	2	2	2	3	1
3	0	1	2	0	4	1
4	5	1	5	4	4	0
2	3	1	1	1	1	4
2	2	3	5	1	0	5
4	4	3	1	0	1	2
0	4	4	0	5	2	5

IMAGE (SEED: 16)

0	1	0		_	
1	1	1			
0	1	0	}		
MASK					
			ļ.	_	

	Draw		

CATEGORY	Available	Awarded
approach	/12	
accuracy	/13	
Total	/25	

Name:		

Below you will see, reading from left to right, an image, a 3×3 mask, and a blank 'image' grid of the same size as your image. Your task is to calculate the convolution of the image with the mask, completing the blank grid with the appropriate values. Please show your working below for the top left-hand pixel of your image. You can use the remainder of the page for your calculations if you wish too. Marks are awarded as shown in the table at the foot of the page.

3	4	5	1	4	4	3
0	0	2	4	1	3	1
5	5	2	5	0	4	5
0	4	3	5	1	3	5
3	1	0	5	2	5	0
4	4	5	0	2	0	4
2	5	2	4	5	1	3

IMAGE (SEED: 17)

0	1	0			
1	1	1			
0	1	0			
MASK					

		DECLUT		

CATEGORY	Available	Awarded
approach	/12	
accuracy	/13	
Total	/25	

Name:		

Below you will see, reading from left to right, an image, a 3×3 mask, and a blank 'image' grid of the same size as your image. Your task is to calculate the convolution of the image with the mask, completing the blank grid with the appropriate values. Please show your working below for the top left-hand pixel of your image. You can use the remainder of the page for your calculations if you wish too. Marks are awarded as shown in the table at the foot of the page.

1	3	2	1	2	2	2
2	1	1	4	1	4	4
5	5	1	1	4	3	1
4	5	5	1	1	0	5
1	4	3	3	3	4	3
1	0	2	5	0	4	3
0	1	4	2	2	2	0

IMAGE	(SEED:	18)
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0	1	0	
1	1	1	
0	1	0	
ľ	MAS1	K	

L				
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Г				
r				
\vdash				
		Droug		

CATEGORY	AVAILABLE	Awarded
approach	/12	
accuracy	/13	
Total	/25	

Name:		

Below you will see, reading from left to right, an image, a 3×3 mask, and a blank 'image' grid of the same size as your image. Your task is to calculate the convolution of the image with the mask, completing the blank grid with the appropriate values. Please show your working below for the top left-hand pixel of your image. You can use the remainder of the page for your calculations if you wish too. Marks are awarded as shown in the table at the foot of the page.

4	4	3	3	2	5	1
0	1	1	1	1	0	1
1	3	1	0	1	3	2
4	4	2	0	4	4	2
3	1	5	5	4	5	1
3	4	4	2	0	3	0
4	0	2	2	0	2	3

IMAGE (SEED: 19)

0	1	0		
1	1	1		
0	1	0		
N	/IAS	K	,	

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-				
		D		

CATEGORY	AVAILABLE	Awarded
approach	/12	
accuracy	/13	
Total	/25	

Name:		

Below you will see, reading from left to right, an image, a 3×3 mask, and a blank 'image' grid of the same size as your image. Your task is to calculate the convolution of the image with the mask, completing the blank grid with the appropriate values. Please show your working below for the top left-hand pixel of your image. You can use the remainder of the page for your calculations if you wish too. Marks are awarded as shown in the table at the foot of the page.

5	4	4	5	1	3	5
5	3	1	2	5	0	1
5	2	1	1	5	2	2
3	4	2	0	3	0	0
1	4	1	4	0	0	0
4	5	1	1	0	3	1
0	3	3	2	0	3	3

0	1	0				
1	1	1				
0	1	0				
N	MAS!	K	J			

CATEGORY	AVAILABLE	AWARDED
approach	/12	
accuracy	/13	
Total	/25	

Name:		

Below you will see, reading from left to right, an image, a 3×3 mask, and a blank 'image' grid of the same size as your image. Your task is to calculate the convolution of the image with the mask, completing the blank grid with the appropriate values. Please show your working below for the top left-hand pixel of your image. You can use the remainder of the page for your calculations if you wish too. Marks are awarded as shown in the table at the foot of the page.

0	4	3	2	1	4	4
3	3	1	0	2	3	0
4	1	1	0	5	4	5
3	0	1	2	0	5	2
0	4	0	5	2	3	2
2	1	0	5	1	4	1
5	5	4	4	3	4	0

IMAGE (SEED: 21)

Λ	1	0				
U	1	U				
1	1	1				
0	1	0				
MASK						

		DECLUT		

CATEGORY	AVAILABLE	Awarded
approach	/12	
accuracy	/13	
Total	/25	

Name:		

Below you will see, reading from left to right, an image, a 3×3 mask, and a blank 'image' grid of the same size as your image. Your task is to calculate the convolution of the image with the mask, completing the blank grid with the appropriate values. Please show your working below for the top left-hand pixel of your image. You can use the remainder of the page for your calculations if you wish too. Marks are awarded as shown in the table at the foot of the page.

5	0	0	5	1	0	3
2	5	1	5	1	3	5
4	5	4	0	5	3	1
1	5	3	5	4	5	3
4	3	1	5	1	4	5
3	0	4	4	1	0	3
0	5	3	3	2	3	5

IMAGE (SEED: 22)

0	1	0				
1	1	1				
0	1	0				
MASK						

	Респп		

CATEGORY	AVAILABLE	AWARDED
approach	/12	
accuracy	/13	
Total	/25	

Name:		

Below you will see, reading from left to right, an image, a 3×3 mask, and a blank 'image' grid of the same size as your image. Your task is to calculate the convolution of the image with the mask, completing the blank grid with the appropriate values. Please show your working below for the top left-hand pixel of your image. You can use the remainder of the page for your calculations if you wish too. Marks are awarded as shown in the table at the foot of the page.

5	5	5	0	3	2	3
0	1	2	1	2	0	0
4	2	3	4	2	0	4
3	3	3	5	2	4	2
3	3	1	0	2	4	3
2	3	1	1	1	4	1
0	0	0	1	3	4	1

IMAGE (SEED: 23)

1	0
1	1
1	0
IAS1	K
	1 1 1 MASI

	 DECLUT	·	·

CATEGORY	Available	Awarded
approach	/12	
accuracy	/13	
Total	/25	

Name:		

Below you will see, reading from left to right, an image, a 3×3 mask, and a blank 'image' grid of the same size as your image. Your task is to calculate the convolution of the image with the mask, completing the blank grid with the appropriate values. Please show your working below for the top left-hand pixel of your image. You can use the remainder of the page for your calculations if you wish too. Marks are awarded as shown in the table at the foot of the page.

4	5	1	5	1	4	0
4	0	4	4	4	2	5
5	0	3	5	4	2	1
5	0	4	5	0	1	1
3	2	5	5	1	5	0
0	3	4	4	5	5	1
4	5	0	2	0	0	2

0	1	0	1				
		_	ļi				
1	1	1					
0	1	0					
N	MAS!	K	,				

CATEGORY	AVAILABLE	Awarded
approach	/12	
accuracy	/13	
Total	/25	

Name:		

Below you will see, reading from left to right, an image, a 3×3 mask, and a blank 'image' grid of the same size as your image. Your task is to calculate the convolution of the image with the mask, completing the blank grid with the appropriate values. Please show your working below for the top left-hand pixel of your image. You can use the remainder of the page for your calculations if you wish too. Marks are awarded as shown in the table at the foot of the page.

2	5	5	1	5	3	0
5	1	1	2	3	0	4
4	3	4	3	4	1	2
2	0	5	3	0	3	2
1	0	2	0	3	3	0
5	0	1	4	1	2	3
2	2	3	2	0	4	1

IMAGE	(SEED:	25)
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0	1	Λ
1	1	1
0	1	0
N	/IAS	K

			Droum			

CATEGORY	Available	Awarded
approach	/12	
accuracy	/13	
Total	/25	

Name:		

Below you will see, reading from left to right, an image, a 3×3 mask, and a blank 'image' grid of the same size as your image. Your task is to calculate the convolution of the image with the mask, completing the blank grid with the appropriate values. Please show your working below for the top left-hand pixel of your image. You can use the remainder of the page for your calculations if you wish too. Marks are awarded as shown in the table at the foot of the page.

4	1	1	3	0	4	4
0	4	3	3	5	5	2
5	4	5	0	5	1	0
3	5	5	2	4	0	5
1	3	0	0	0	3	3
4	5	2	5	1	5	1
5	2	2	3	0	0	3

IM.	AGE	(SEI	ED: 2	26)

0	1	0]				
1	1	1					
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CATEGORY	Available	Awarded
approach	/12	
accuracy	/13	
Total	/25	

Name:		

Below you will see, reading from left to right, an image, a 3×3 mask, and a blank 'image' grid of the same size as your image. Your task is to calculate the convolution of the image with the mask, completing the blank grid with the appropriate values. Please show your working below for the top left-hand pixel of your image. You can use the remainder of the page for your calculations if you wish too. Marks are awarded as shown in the table at the foot of the page.

3	4	5	1	0	4	1
2	4	1	5	2	0	5
3	0	5	4	4	3	5
0	5	3	1	3	2	3
4	3	0	2	1	4	5
4	3	1	4	1	5	1
5	0	4	2	3	2	1

IMAGE (SEED: 27)

0	1	0		
1	1	1		
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MASK				

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CATEGORY	Available	Awarded
approach	/12	
accuracy	/13	
Total	/25	

Name:		

Below you will see, reading from left to right, an image, a 3×3 mask, and a blank 'image' grid of the same size as your image. Your task is to calculate the convolution of the image with the mask, completing the blank grid with the appropriate values. Please show your working below for the top left-hand pixel of your image. You can use the remainder of the page for your calculations if you wish too. Marks are awarded as shown in the table at the foot of the page.

0	0	3	1	0	2	2
1	2	5	0	1	0	1
0	5	1	5	0	5	3
4	3	1	1	4	0	0
4	3	1	3	5	1	0
2	1	2	0	4	4	2
2	1	5	5	3	1	1

IMAGE (SEED: 28)

0	1	0		L
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0	1	0		H
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				H

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CATEGORY	AVAILABLE	Awarded
approach	/12	
accuracy	/13	
Total	/25	

Name:		

Below you will see, reading from left to right, an image, a 3×3 mask, and a blank 'image' grid of the same size as your image. Your task is to calculate the convolution of the image with the mask, completing the blank grid with the appropriate values. Please show your working below for the top left-hand pixel of your image. You can use the remainder of the page for your calculations if you wish too. Marks are awarded as shown in the table at the foot of the page.

3	2	5	1	3	2	2
5	0	2	1	2	5	1
3	2	4	2	1	2	2
4	3	1	4	1	3	1
2	4	3	4	4	3	3
2	3	4	0	5	2	0
0	2	0	2	2	3	2

IMAGE (SEED: 29)

0	1	0			
1	1	1			
0	1	0			
MASK					

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CATEGORY	AVAILABLE	Awarded
approach	/12	
accuracy	/13	
Total	/25	

Name:		

Below you will see, reading from left to right, an image, a 3×3 mask, and a blank 'image' grid of the same size as your image. Your task is to calculate the convolution of the image with the mask, completing the blank grid with the appropriate values. Please show your working below for the top left-hand pixel of your image. You can use the remainder of the page for your calculations if you wish too. Marks are awarded as shown in the table at the foot of the page.

3	1	0	3	1	1	2
3	5	2	5	5	1	0
0	5	3	5	5	3	3
0	0	4	4	4	3	4
3	5	0	2	1	4	5
1	0	1	1	4	2	4
1	3	1	3	3	5	5

0	1	0	1				
$\frac{0}{1}$	1	1					
0	1	0					
MASK							

CATEGORY	Available	Awarded
approach	/12	
accuracy	/13	
Total	/25	

Name:		

Below you will see, reading from left to right, an image, a 3×3 mask, and a blank 'image' grid of the same size as your image. Your task is to calculate the convolution of the image with the mask, completing the blank grid with the appropriate values. Please show your working below for the top left-hand pixel of your image. You can use the remainder of the page for your calculations if you wish too. Marks are awarded as shown in the table at the foot of the page.

0	0	2	4	0	0	1
4	0	4	3	0	3	2
2	5	0	0	5	2	1
1	2	5	1	1	3	3
5	5	2	1	5	5	0
4	5	3	1	4	4	1
3	1	0	2	2	2	3

IMAGE (SEED: 31)

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1	1	1					
0	1	0					
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		Droug		

CATEGORY	Available	AWARDED
approach	/12	
accuracy	/13	
Total	/25	

Name:		

Below you will see, reading from left to right, an image, a 3×3 mask, and a blank 'image' grid of the same size as your image. Your task is to calculate the convolution of the image with the mask, completing the blank grid with the appropriate values. Please show your working below for the top left-hand pixel of your image. You can use the remainder of the page for your calculations if you wish too. Marks are awarded as shown in the table at the foot of the page.

0	1	1	5	2	4	0
3	5	3	5	5	2	0
4	0	0	4	5	5	5
1	0	0	5	0	0	0
0	0	2	0	1	5	1
4	4	3	3	4	3	1
1	1	2	5	2	0	2

IM.	AGE	(SEI	ED: 3	32)

0	1	0	1				
1	1	1					
0	1	0					
MASK							
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CATEGORY	Available	Awarded
approach	/12	
accuracy	/13	
Total	/25	

Name:		

Below you will see, reading from left to right, an image, a 3×3 mask, and a blank 'image' grid of the same size as your image. Your task is to calculate the convolution of the image with the mask, completing the blank grid with the appropriate values. Please show your working below for the top left-hand pixel of your image. You can use the remainder of the page for your calculations if you wish too. Marks are awarded as shown in the table at the foot of the page.

3	3	4	1	3	5	5
1	3	3	3	5	3	2
5	3	1	1	2	0	3
4	2	5	5	3	4	0
0	5	1	1	5	4	0
1	1	1	0	3	1	2
1	0	0	5	4	3	0

IMAGE (SEED: 33)

0	1	0			
1	1	1			
0	1	0			
MASK					

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CATEGORY	AVAILABLE	Awarded
approach	/12	
accuracy	/13	
Total	/25	

Name:		

Below you will see, reading from left to right, an image, a 3×3 mask, and a blank 'image' grid of the same size as your image. Your task is to calculate the convolution of the image with the mask, completing the blank grid with the appropriate values. Please show your working below for the top left-hand pixel of your image. You can use the remainder of the page for your calculations if you wish too. Marks are awarded as shown in the table at the foot of the page.

3	3	5	5	5	2	5
2	1	0	3	0	1	3
4	4	0	0	1	3	5
4	5	3	3	1	1	1
3	3	3	2	2	1	4
3	4	4	1	0	1	5
4	2	4	2	5	0	4

0	1	0			
1	1	1			
0	1	0			
MASK					

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CATEGORY	AVAILABLE	AWARDED
approach	/12	
accuracy	/13	
Total	/25	

Name:		

Below you will see, reading from left to right, an image, a 3×3 mask, and a blank 'image' grid of the same size as your image. Your task is to calculate the convolution of the image with the mask, completing the blank grid with the appropriate values. Please show your working below for the top left-hand pixel of your image. You can use the remainder of the page for your calculations if you wish too. Marks are awarded as shown in the table at the foot of the page.

3	4	4	5	1	5	3
4	4	5	1	2	4	3
4	2	5	0	4	2	0
4	0	1	1	0	0	0
5	0	0	0	5	3	4
5	2	2	2	1	3	5
3	4	5	4	4	3	0

IM.	AGE	(SEI	ED: 3	35)

0	1	0	
1	1	1	
0	1	0	
N	/IAS	K	

CATEGORY	Available	AWARDED
approach	/12	
accuracy	/13	
Total	/25	

Name:		

Below you will see, reading from left to right, an image, a 3×3 mask, and a blank 'image' grid of the same size as your image. Your task is to calculate the convolution of the image with the mask, completing the blank grid with the appropriate values. Please show your working below for the top left-hand pixel of your image. You can use the remainder of the page for your calculations if you wish too. Marks are awarded as shown in the table at the foot of the page.

1	5	5	5	4	5	0
3	1	4	2	3	3	3
4	5	2	4	5	2	0
2	4	3	1	4	1	5
1	3	2	5	0	5	2
2	1	2	5	5	5	3
1	3	3	1	5	0	1

IMAGE (SEED: 36)

0	1	0
1	1	1
0	1	0
N	/IAS	K

	Droum		

CATEGORY	Available	Awarded
approach	/12	
accuracy	/13	
Total	/25	

Name:		

Below you will see, reading from left to right, an image, a 3×3 mask, and a blank 'image' grid of the same size as your image. Your task is to calculate the convolution of the image with the mask, completing the blank grid with the appropriate values. Please show your working below for the top left-hand pixel of your image. You can use the remainder of the page for your calculations if you wish too. Marks are awarded as shown in the table at the foot of the page.

4	0	3	5	5	3	3
2	3	0	4	3	1	2
4	2	5	5	5	0	0
1	2	4	4	3	3	3
0	3	1	2	0	3	5
0	3	0	2	0	5	4
5	1	4	4	3	5	3

IMAGE	(SEED:	37)
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0	1	0
1	1	1
0	1	0
N	/IAS	K

	Droum		

CATEGORY	Available	Awarded
approach	/12	
accuracy	/13	
Total	/25	

Name:		

Below you will see, reading from left to right, an image, a 3×3 mask, and a blank 'image' grid of the same size as your image. Your task is to calculate the convolution of the image with the mask, completing the blank grid with the appropriate values. Please show your working below for the top left-hand pixel of your image. You can use the remainder of the page for your calculations if you wish too. Marks are awarded as shown in the table at the foot of the page.

3	2	4	0	4	2	3
1	2	1	1	4	2	5
3	1	3	3	0	3	0
2	3	4	5	3	0	2
1	4	5	0	4	1	1
2	2	1	1	2	4	0
2	1	4	1	4	0	5

IMAGE (SEED: 38)

0	-1					
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1	1	1				
0	1	0				
MASK						

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CATEGORY	Available	Awarded
approach	/12	
accuracy	/13	
Total	/25	

Name:		

Below you will see, reading from left to right, an image, a 3×3 mask, and a blank 'image' grid of the same size as your image. Your task is to calculate the convolution of the image with the mask, completing the blank grid with the appropriate values. Please show your working below for the top left-hand pixel of your image. You can use the remainder of the page for your calculations if you wish too. Marks are awarded as shown in the table at the foot of the page.

1	2	1	2	3	3	1
2	1	4	1	5	0	0
2	2	4	5	3	1	4
2	1	1	0	4	0	1
3	3	3	3	4	5	5
2	2	0	2	1	5	4
1	4	4	0	4	4	2

IMAGE (SEED: 39)

0	1	0				
1	1	1				
0	1	0				
MASK						

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r				
\vdash				
		Droug		

CATEGORY	Available	Awarded
approach	/12	
accuracy	/13	
Total	/25	

Name:

Below you will see, reading from left to right, an image, a 3×3 mask, and a blank 'image' grid of the same size as your image. Your task is to calculate the convolution of the image with the mask, completing the blank grid with the appropriate values. Please show your working below for the top left-hand pixel of your image. You can use the remainder of the page for your calculations if you wish too. Marks are awarded as shown in the table at the foot of the page.

2	5	0	1	5	3	0
2	5	2	0	5	0	3
3	2	5	1	3	0	5
0	3	4	5	0	5	5
1	4	1	0	0	1	4
2	5	5	1	2	0	3
3	3	0	3	0	5	2

					·		
0	1	0	1				
	1	U					
1	1	1					
0	1	0					
N	/IASI	K					

CATEGORY	AVAILABLE	Awarded
approach	/12	
accuracy	/13	
Total	/25	

Name:		

Below you will see, reading from left to right, an image, a 3×3 mask, and a blank 'image' grid of the same size as your image. Your task is to calculate the convolution of the image with the mask, completing the blank grid with the appropriate values. Please show your working below for the top left-hand pixel of your image. You can use the remainder of the page for your calculations if you wish too. Marks are awarded as shown in the table at the foot of the page.

2	1	0	5	3	4	3
2	4	3	4	3	5	2
0	0	4	1	3	3	0
4	0	5	5	1	4	4
0	4	0	5	4	5	0
1	3	3	1	5	5	1
0	4	2	3	2	2	0

IM.	AGE	(SEI	ED:	41)	

0	1	0		
1	1	1		
0	1	0		
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CATEGORY	AVAILABLE	AWARDED
approach	/12	
accuracy	/13	
Total	/25	

Name:		

Below you will see, reading from left to right, an image, a 3×3 mask, and a blank 'image' grid of the same size as your image. Your task is to calculate the convolution of the image with the mask, completing the blank grid with the appropriate values. Please show your working below for the top left-hand pixel of your image. You can use the remainder of the page for your calculations if you wish too. Marks are awarded as shown in the table at the foot of the page.

3	0	1	1	4	4	5
0	2	0	1	3	0	1
3	3	1	3	4	0	4
4	2	0	5	2	0	0
5	3	4	4	3	5	2
3	4	3	5	3	4	0
1	1	0	1	0	1	3

IMAGE (SEED: 42)

0	1	0				
1	1	1				
0	1	0				
MASK						

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				Droug				

CATEGORY	Available	Awarded
approach	/12	
accuracy	/13	
Total	/25	

Name:		

Below you will see, reading from left to right, an image, a 3×3 mask, and a blank 'image' grid of the same size as your image. Your task is to calculate the convolution of the image with the mask, completing the blank grid with the appropriate values. Please show your working below for the top left-hand pixel of your image. You can use the remainder of the page for your calculations if you wish too. Marks are awarded as shown in the table at the foot of the page.

0	4	0	2	4	4	2
2	0	2	2	5	3	4
2	1	5	4	2	0	3
2	4	3	3	3	2	0
0	5	5	1	5	3	0
5	3	5	4	0	3	4
5	1	3	4	1	5	4

IMAGE (SEED: 43)

0	1	0			
1	1	1			
0	1	0			
MASK					

		DECLUT		

CATEGORY	AVAILABLE	Awarded
approach	/12	
accuracy	/13	
Total	/25	

Name:		

Below you will see, reading from left to right, an image, a 3×3 mask, and a blank 'image' grid of the same size as your image. Your task is to calculate the convolution of the image with the mask, completing the blank grid with the appropriate values. Please show your working below for the top left-hand pixel of your image. You can use the remainder of the page for your calculations if you wish too. Marks are awarded as shown in the table at the foot of the page.

2	3	5	1	1	0	0
0	0	3	5	4	2	2
4	1	0	5	3	0	0
0	5	0	3	5	0	2
2	5	1	1	1	0	4
4	2	0	4	4	3	1
4	3	3	3	1	2	4

IMAGE (SEED: 44)

0	1	0			
1	1	1			
0	1	0			
MASK					

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Available	AWARDED
/12	
/13	
/25	
	/12 /13

Name:		

Below you will see, reading from left to right, an image, a 3×3 mask, and a blank 'image' grid of the same size as your image. Your task is to calculate the convolution of the image with the mask, completing the blank grid with the appropriate values. Please show your working below for the top left-hand pixel of your image. You can use the remainder of the page for your calculations if you wish too. Marks are awarded as shown in the table at the foot of the page.

1	2	0	2	0	0	1
0	1	4	0	3	0	4
4	1	5	4	0	2	4
5	1	1	4	5	0	0
4	1	2	5	4	3	5
4	4	3	3	0	5	5
2	3	0	2	3	1	2

IMAGE (SEED: 45)

0	1	0			
1	1	1			
0	1	0			
MASK					

		DECLUT		

CATEGORY	Available	Awarded
approach	/12	
accuracy	/13	
Total	/25	

Name:		

Below you will see, reading from left to right, an image, a 3×3 mask, and a blank 'image' grid of the same size as your image. Your task is to calculate the convolution of the image with the mask, completing the blank grid with the appropriate values. Please show your working below for the top left-hand pixel of your image. You can use the remainder of the page for your calculations if you wish too. Marks are awarded as shown in the table at the foot of the page.

5	2	3	5	1	3	3
5	0	0	1	4	5	0
5	3	5	5	0	5	2
0	2	0	4	3	0	1
3	4	1	0	2	0	2
5	1	1	4	1	0	1
3	4	4	0	1	0	3

IM.	AGE	(SEI	ED: 4	16)

0	1	0			
1	1	1			
0	1	0			
MASK					

	 DECLUT	·	·

CATEGORY	Available	Awarded
approach	/12	
accuracy	/13	
Total	/25	

Name:		

Below you will see, reading from left to right, an image, a 3×3 mask, and a blank 'image' grid of the same size as your image. Your task is to calculate the convolution of the image with the mask, completing the blank grid with the appropriate values. Please show your working below for the top left-hand pixel of your image. You can use the remainder of the page for your calculations if you wish too. Marks are awarded as shown in the table at the foot of the page.

2	2	2	2	3	2	0
2	0	0	1	5	2	3
5	5	3	1	3	2	5
0	2	4	3	3	4	1
5	5	0	2	2	2	3
1	3	5	5	5	1	4
4	3	4	1	4	1	3

IMAGE (SEED: 47)

0	1	0			
1	1	1			
0	1	0			
MASK					

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		Droug		

CATEGORY	Available	Awarded
approach	/12	
accuracy	/13	
Total	/25	

Name:		

Below you will see, reading from left to right, an image, a 3×3 mask, and a blank 'image' grid of the same size as your image. Your task is to calculate the convolution of the image with the mask, completing the blank grid with the appropriate values. Please show your working below for the top left-hand pixel of your image. You can use the remainder of the page for your calculations if you wish too. Marks are awarded as shown in the table at the foot of the page.

3	0	4	1	5	1	4
0	5	5	0	3	1	3
5	0	1	0	0	2	0
0	4	1	2	2	5	1
3	5	3	1	0	3	1
2	4	4	1	2	1	1
2	0	0	0	1	3	1

IM.	AGE	(SEI	ED: 4	18)

1 0				
$egin{array}{c c} 1 & 0 \\ \hline 1 & 1 \\ \hline 1 & 0 \\ \hline \end{array}$				
ASK				

CATEGORY	Available	Awarded
approach	/12	
accuracy	/13	
Total	/25	

Name:		

Below you will see, reading from left to right, an image, a 3×3 mask, and a blank 'image' grid of the same size as your image. Your task is to calculate the convolution of the image with the mask, completing the blank grid with the appropriate values. Please show your working below for the top left-hand pixel of your image. You can use the remainder of the page for your calculations if you wish too. Marks are awarded as shown in the table at the foot of the page.

0	2	0	4	3	0	0
4	0	4	3	3	5	3
3	2	1	0	2	2	4
1	2	5	3	3	4	5
1	4	0	1	3	1	2
1	1	2	3	4	2	2
5	4	3	3	0	1	0

IMAGE (SEED: 49)

0	1	0		
1	1	1		
0	1	0		
MASK				

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CATEGORY	AVAILABLE	Awarded
approach	/12	
accuracy	/13	
Total	/25	