Example

Global edge table defined initially.

12	λ
11	λ
10	λ
9	λ
8	λ
7	$\rightarrow$
6	λ
5	$\rightarrow$
4	λ
3	$\rightarrow$
2	λ
1	$\rightarrow$
0	λ

Row 7: $\boxed{9 \mid 7 \mid -5/2} \rightarrow \boxed{11 \mid 7 \mid 3/2 \mid \lambda}$
EF   ED

Row 5: $\boxed{11 \mid 13 \mid 0 \mid \lambda}$
CD

Row 3: $\boxed{9 \mid 2 \mid 0 \mid \lambda}$
AF

Row 1: $\boxed{3 \mid 7 \mid -5/2} \rightarrow \boxed{5 \mid 7 \mid 3/2 \mid \lambda}$
AB   BC

$y_{max} \quad x_{min} \quad 1/m$

Initially AET is empty.

Scanline 1

AET → | 3 | 7 | -5/2 | → | 5 | 7 | 3/2 | λ |

AB   BC

Reason:
x_{min} of AB is integer, so it will be considered interior and x_{min} of y is also integer and will be considered exterior.
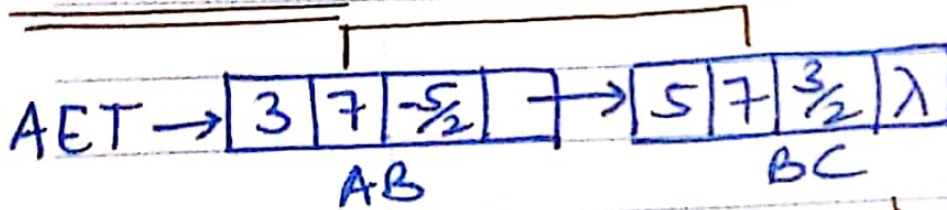
Fill pixel (7,1)

Now GET will be as follows:

:	:
7		→	9	7	-5/2	→	11	7	3/2	λ
		EF ED
6	λ
5		→	11	13	0	λ
		CD
4	λ
3		→	9	2	0	λ
		AF
2	λ
1	λ
0	λ

Scanline 2

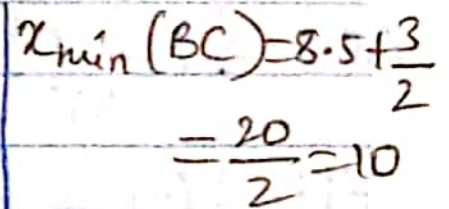AET → | 3 | 4.5 | -5/2 | → | 5 | 8.5 | 3/2 | λ |

AB   BC
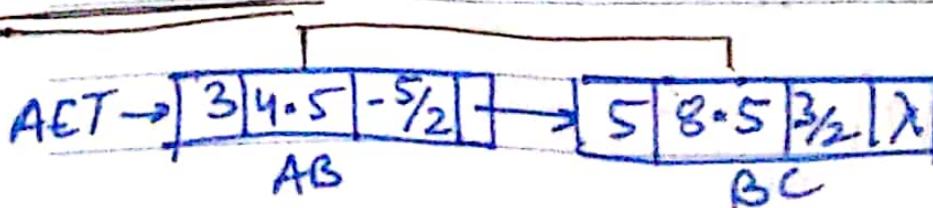
$$x_{k+1} = x_k + \frac{1}{m}$$

(Incremental algo. using edge coherence)

Fill pixel b/w $(5,2)$ to $(8,2)$

Reason— x_{min} of AB is fractional, so we round up to be strictly interior.
x_{min} of BC is also fractional, so we round down to be strictly interior.

Global edge table will be same as previous step.

Scanline - 3

AET → | 9 | 2 | 0 | | → | 5 | 10 | 3/2 | λ |

   AF   BC
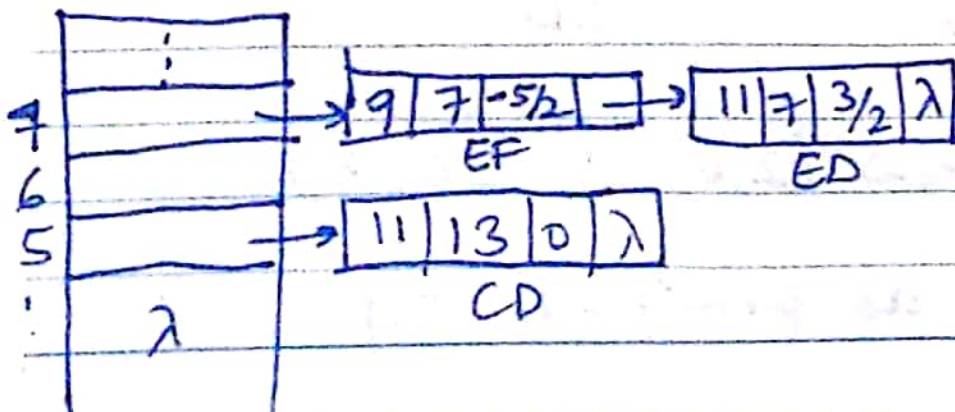
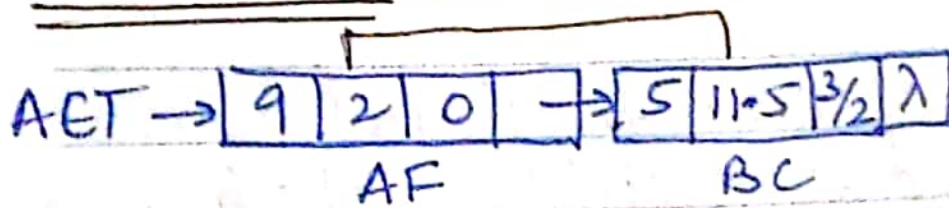$x_{min}(BC) = 8.5 + \dfrac{3}{2}$

$= \dfrac{20}{2} = 10$

AB is removed from AET because, according to the algorithm, we have to remove all the edges where y_{max} is equal to the scanline (in this case 3).

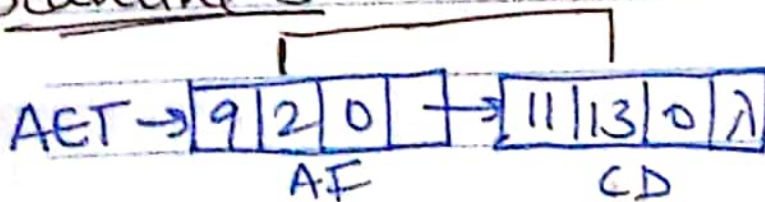Now we fill pixels between $(2,3)$ to $(9,3)$.

GET

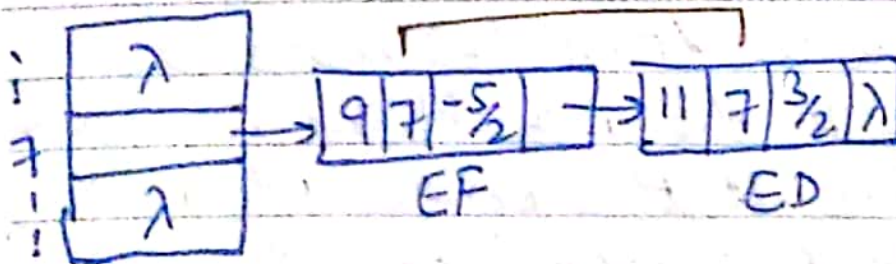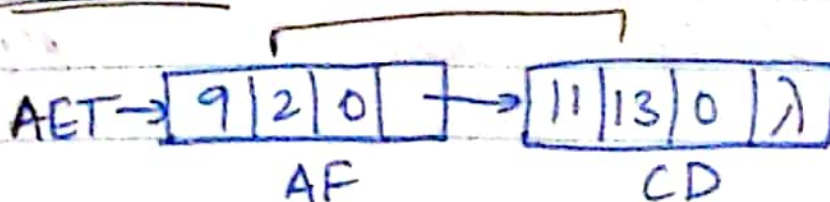| 7		→	9	7	-5/2		→	11	7	3/2	λ
				EF				ED			

6	

5		→	11	13	0	λ

              CD

λ

Scanline 4

AET → | 9 | 2 | 0 | → | 5 | 11·5 | 3/2 | λ |

$\qquad\qquad$ AF $\qquad\qquad$ BC

Now we fill pixels between (2,4) to (11,4)

GET same as previous step.

Scanline 5

AET → | 9 | 2 | 0 | → | 11 | 13 | 0 | λ |

$\qquad\quad$ AF $\qquad\qquad$ CD

Fill pixels b/w (2,5) to (12,5)

GET

	λ		→	9	7	-5/2	→	11	7	3/2	λ
7		
	λ	

$\qquad\qquad\qquad\qquad$ EF $\qquad\qquad$ ED

Scanline 6

AET → | 9 | 2 | 0 | → | 11 | 13 | 0 | λ |

$\qquad\quad$ AF $\qquad\qquad$ CD

Fill pixels b/w (2,6) to (12, 6)

GET same as previous step.

Scanline 7

AET → | 9 | 2 | 0 | | → | 9 | 7 | $-5/2$ | | → | 11 | 7 | $3/2$ |

AF   EF   ED

| 11 | 13 | 0 | λ |

CD
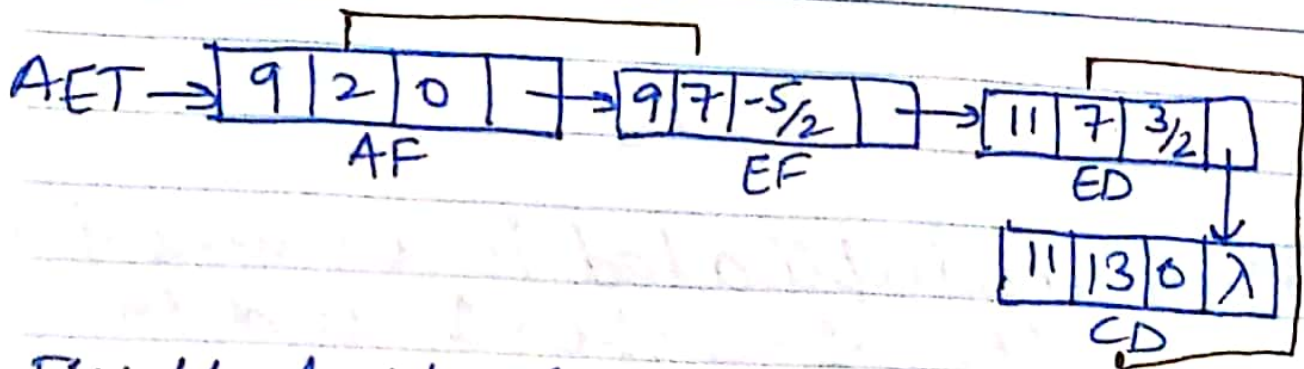
Fill pixels b/w (2,7) to (6,7) and
(7,7) to (12,7)

GET → Empty.

λ