181105016 Deepraj Bhosale
Batch-A
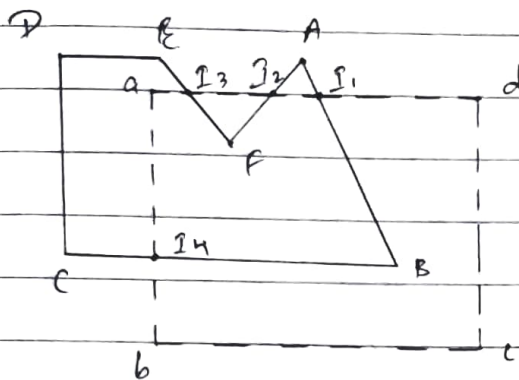Page No.:
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CG Tutorial - 9

1.

Polygon vertex list : $\{A, I_1, F, I_3, E, D, C, I_4, B, I_1\}$

Clipping window vertex : $\{a, I_4, b, c, d, I_1, I_2, I_3\}$

Starting at F, Following polygon:
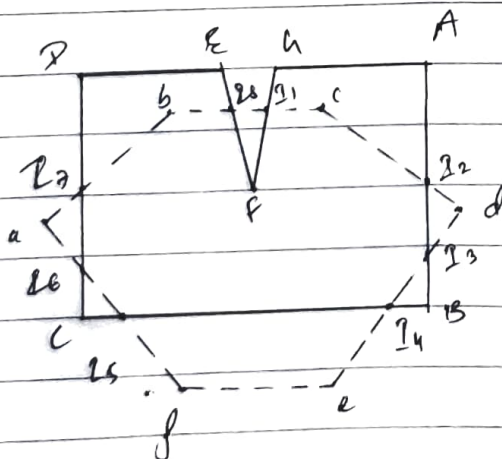
$\{F, F_3\}$

Following clip window

(I_3, a, I_4)

Following polygon

$\{I_4, B, I\}$

Following clipping window

$\{I_1, I_2\}$

Following polygon

$\{I_2, F\}$

F has ~~added~~ already been processed.

∴ Clipped polygon list : $\{F, I_3, a, I_4, B, I_1, I_2\}$

2.

Polygon Vertices : $\{$ A, a, Z, F, I_8, E, D, I_7, I_6, C, I_5, I_4, B, I_3, I_2 $\}$

Clipping Window Vertices : $\{a, I_6, I_5, F, e, I_4, I_3, d, I_2, c, I_1, I_8, b, I_7\}$

Starting at point F, following polygon:

$\{F, I_8\}$

Following clipping window: $\{I_8, b, I_7\}$

Following polygon : $\{I_7, I_6\}$

Following clip window : $\{I_6, I_5\}$

Following polygon: $\{I_5, I_4\}$

Following window : $\{I_4, I_3\}$

Following Polygon : $\{I_3, I_2\}$

Following Clip window : $\{I_2, I_1\}$

Following polygon : $\{I_1, F\}$

F has already been processed.

∴ Clipped polygon vertices list is :

$\{F, I_8, b, I_7, I_6, I_5, I_4, I_3, I_2, I_1\}$