

Geometric Sorting

Dual "5": $(s, t) \Leftrightarrow y = sx - t$

a	-3	5
b	2.5	3
c	0.5	1
d	-0.7	6

X-sorted: a d c b

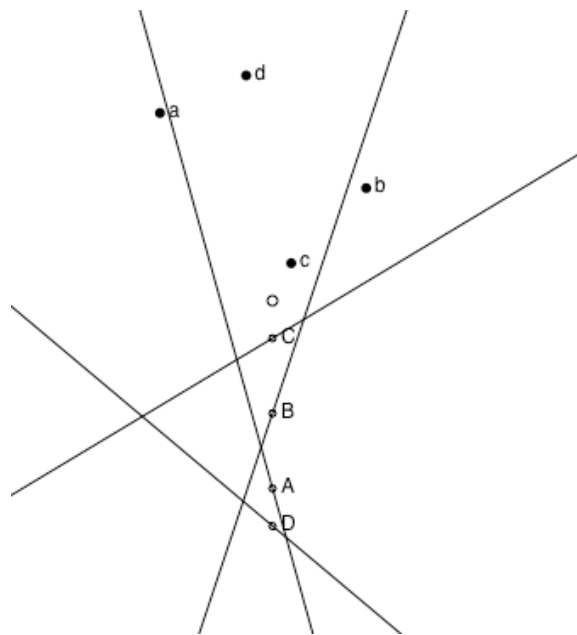
Left-to-right crossings (slope order), then right and left unmerged to give -90° through $+270^\circ$ rotation:

A: $C_R B_R D_R$ c b d

B: $D_L A_L C_L$ d a c

C: $D_L A_L B_R$ b d a

D: $C_R B_R A_L$ c b a



a	0.5	5
b	2	-3
c	-0.7	6
d	3	-4
e	1	7
f	-1	4

X-sorted: f c a e b d

Left-to-right crossings (slope order), then right and left unmerged to give -90° through $+270^\circ$ rotation:

A: $B_R D_R C_L F_L E_R$	b d e	c f
B: $E_L A_L C_L F_L D_R$	d	e a c f
C: $B_R D_R A_R E_R F_L$	b d a e	f
D: $E_L A_L C_L F_L B_L$		e a c f b
E: $B_R D_R C_L F_L A_L$	b d	c f a
F: $B_R D_R A_R E_R C_R$	b d a e c	

