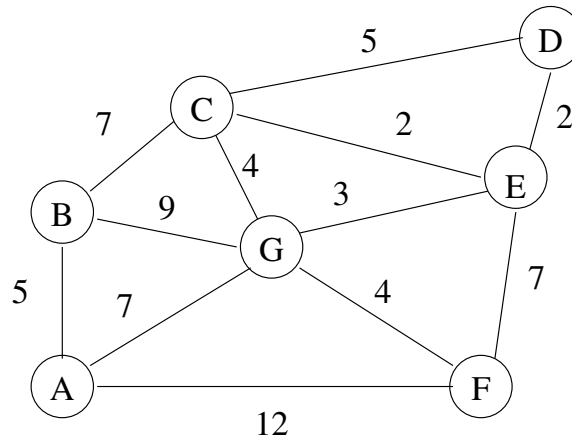


# Kruskal Worksheet



- List the edges in non-decreasing order of weight.

$E_1$	$E_2$	$E_3$	$E_4$	$E_5$	$E_6$	$E_7$	$E_8$	$E_9$	$E_{10}$	$E_{11}$	$E_{12}$
DE	CE	GE	GF	GC	CD	AB	BC	AG	EF	BG	AF
2	2	3	4	4	5	5	7	7	7	9	12

- Start with spanning tree  $T = \{\}$ . For each edge in order, check whether it creates a cycle? If not, add it to  $T$ .

Edge	Cycle?
$E_1$	No
$E_2$	No
$E_3$	No
$E_4$	No
$E_5$	Yes
$E_6$	Yes
$E_7$	No
$E_8$	No
$E_9$	Yes
$E_{10}$	Yes
$E_{11}$	Yes
$E_{12}$	Yes