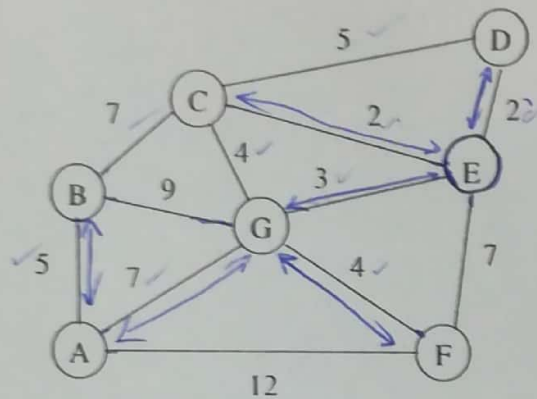


Kruskal Worksheet

ایکریس لکھنوی - ۹۴۳۱.۵۹



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

$\checkmark E_1$	$\checkmark E_2$	$\checkmark E_3$	$\checkmark E_4$	$\checkmark E_5$	$\checkmark E_6$	$\checkmark E_7$	$\checkmark E_8$	$\checkmark E_9$	$\checkmark E_{10}$	$\checkmark E_{11}$	$\checkmark E_{12}$
DE	EC	EG	GE	GF	AB	CD	AG	BC	FE	BG	AF

2. 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	X
E_2	X
E_3	X
E_4	✓
E_5	X
E_6	X
E_7	✓
E_8	X
E_9	✓
E_{10}	✓
E_{11}	✓
E_{12}	✓

$\{DE\}$
 $\{DE, EC\}$
 $\{DE, EC, EG\}$
 $\{DE, EC, EG, AB, BC\}$

$\{DE, EC, EG, AB, BC, AG\}$

✓ ندارد
 ✗ ندارد