



(a)

Edge processed	Collection of disjoint sets									
initial sets	$\{a\}$	$\{b\}$	$\{c\}$	$\{d\}$	$\{e\}$	$\{f\}$	$\{g\}$	$\{h\}$	$\{i\}$	$\{j\}$
$(b, d)$	$\{a\}$	$\{b, d\}$	$\{c\}$		$\{e\}$	$\{f\}$	$\{g\}$	$\{h\}$	$\{i\}$	$\{j\}$
$(e, f)$	$\{a\}$	$\{b, d\}$	$\{c\}$		$\{e, f\}$		$\{g\}$	$\{h\}$	$\{i\}$	$\{j\}$
$(a, c)$	$\{a, c\}$	$\{b, d\}$			$\{e, f\}$		$\{g\}$	$\{h\}$	$\{i\}$	$\{j\}$
$(h, i)$	$\{a, c\}$	$\{b, d\}$			$\{e, f\}$		$\{g\}$	$\{h, i\}$		$\{j\}$
$(a, b)$	$\{a, b, c, d\}$				$\{e, f\}$		$\{g\}$	$\{h, i\}$		$\{j\}$
$(f, g)$	$\{a, b, c, d\}$				$\{e, f, g\}$			$\{h, i\}$		$\{j\}$
$(b, c)$	$\{a, b, c, d\}$				$\{e, f, g\}$			$\{h, i\}$		$\{j\}$

(b)