i	U	$L \cap U$	S	Selected node	Case
1	$\{v_1, v_2, v_3, v_4, v_5, v_6\}$	$\emptyset$	$\emptyset$	v_2	3
2	$\{v_1, v_2, v_3, v_4, v_5, v_6\}$	v_2	$\emptyset$	v_1	2
3	$\{v_2, v_3, v_4, v_5, v_6\}$	v_2	v_1	v_4	1
4	$\{v_2, v_3, v_5, v_6\}$	v_2	v_1	v_2	1
5	$\{v_3, v_5, v_6\}$	$\emptyset$	v_1	v_3	3
6	$\{v_3, v_5, v_6\}$	v_3	v_1	v_6	2
7	$\{v_3, v_5\}$	v_3	v_1, v_6	v_3	1
8	$\{v_5\}$	$\emptyset$	v_1, v_6	v_5	1

(a). For each iteration of the while loop, the tables provides the content of the sets U, $L \cap U$, S at the begin of iteration, the selected node and whether Cases 1, 2 or 3 applies.