

AFIFAH NOVIANI

G64170023

baris ( $V_i$ ) = Relaman ( $V_i$ )

Kolom ( $U$ ) = pekerjaan ( $V_2$ )

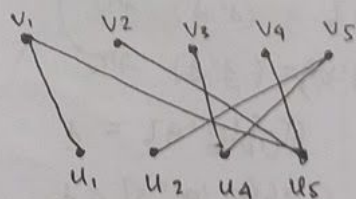
	$u_1$	$u_2$	$u_3$	$u_4$	$u_5$	$l(V_i)$
$V_1$	<u>5</u>	2	3	4	<u>5</u>	5
$V_2$	1	2	3	4	<u>5</u>	5
$V_3$	2	2	0	<u>3</u>	1	3
$V_4$	4	5	3	<u>5</u>	<u>6</u>	6
$V_5$	2	<u>4</u>	<u>4</u>	0	3	4

$l(u)$  0 0 0 0 0

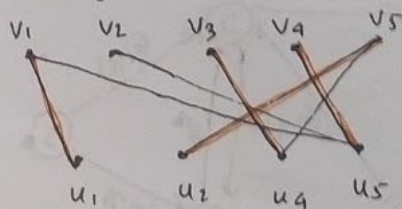
$$cek = l(V) + l(u) = w(Vu)$$

$V_1 u_1, V_1 u_5, V_2 u_5, V_3 u_4, V_4 u_5$

$V_5 u_2, V_5 u_4$

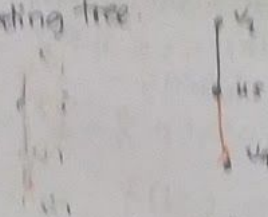


matching maksimum



$$M = \{ V_1 u_1, V_3 u_4, V_4 u_5, V_5 u_2 \}$$

Alternating tree



$$m = \min \{ l(V) + l(u) - w(Vu) \}$$

$$V_1 \cap V(T) = \{ u_2, u_4 \}$$

$$V_2 - V(T) = \{ u_1, u_3, u_5 \}$$

$$l(V_2) + l(u_1) - w(V_2 u_1) = 5 + 0 - 1 = 4$$

$$l(V_2) + l(u_2) - w(V_2 u_2) = 5 + 0 - 2 = 3$$

$$l(V_2) + l(u_3) - w(V_2 u_3) = 5 + 0 - 3 = 2$$

$$l(V_2) + l(u_4) - w(V_2 u_4) = 5 + 0 - 4 = 1$$

$$l(V_4) + l(u_1) - w(V_4 u_1) = 6 + 0 - 4 = 2$$

$$l(V_4) + l(u_2) - w(V_4 u_2) = 6 + 0 - 5 = 1$$

$$l(V_4) + l(u_3) - w(V_4 u_3) = 6 + 0 - 3 = 3$$

$$l(V_4) + l(u_4) - w(V_4 u_4) = 6 + 0 - 5 = 1$$

$$m = \min \{ 4, 3, 2, 1, 2, 1, 3, 1 \} = 1$$

update :

$$l(V) - m \quad (l(u) \text{ yg diatas})$$

$$l(u) + m \quad (\text{selain } l(u) \text{ yg diatas})$$

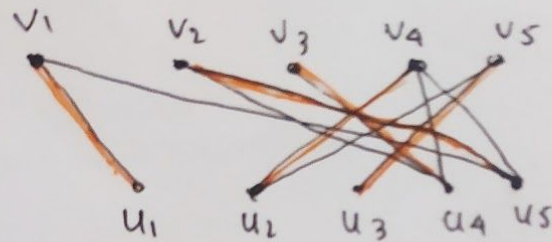
	$u_1$	$u_2$	$u_3$	$u_4$	$u_5$	$l(V)$
$V_1$	5	2	3	4	5	5
$V_2$	1	2	3	<u>4</u>	<u>5</u>	<del>5</del> 4
$V_3$	2	2	0	<u>3</u>	1	3
$V_4$	4	<u>5</u>	3	<u>5</u>	<u>6</u>	<del>6</del> 5
$V_5$	2	<u>4</u>	<u>4</u>	0	3	4

$l(u)$  0 0 0 0 0

1

$\{v_1u_1, v_3u_4, v_4u_5, v_5u_2, v_2u_4,$

$v_4u_2, v_4u_4, v_5u_2, v_5u_3, v_1u_5\}$



$M = \{v_1u_1, v_2u_5, v_3u_4, v_4u_2, v_5u_3\}$

$$\text{bobot} = 5 + 5 + 3 + 5 + 4 = 22$$