

10052 [4, 3, 2, 9]

B_i B_1 B_2 B_3 B_4 B_5

A_i		10	8	5	9	16	12
A_1							
A_2		4	3	4	11	12	8
A_3		5	10	29	7	6	10
A_4		9	2	4	1	3	7
A_5		0	0	0	0	0	2
		6	11	2	8	8	

$X_{44} = \min(8, 7)$

X_{12} (2, 8)
 X_{12} (2, 12)
 X_{31} (6, 10)
 X_{35} (8, 4)
 X_{12} (7, 10)
 X_{14} (1, 3)
 X_{11} (9, 2)

$$U = 8 \cdot 2 + 5 \cdot 7 + 9 \cdot 1 + 16 \cdot 2 + 3 \cdot 8 + 5 \cdot 6 + 4 \cdot 6 + 7 = 217;$$

	v_0	v_1	v_2	v_3	v_4	v_5
u_0		15	8	5	8	16
u_1		10	8	5	9	16
	0	7	7	1	2	
u_2		4	5	4	11	12
	-5	8				
u_3		5	10	29	7	6
	-106				4	
u_4		9	2	4	1	3
	-8			2		
		0	0	0	0	0
	-16					

$\Delta_{11} = -5 < 0$
 $\Delta_{21} = -6 < 0$
 $\Delta_{12} = 4$
 $\Delta_{14} = 7$
 $\Delta_{15} = 1$
 $\Delta_{32} = 12$
 $\Delta_{33} = 34$
 $\Delta_{34} = 8$
 $\Delta_{35} = 0$
 $\Delta_{41} = 2$
 $\Delta_{42} = 6$
 $\Delta_{43} = 1$
 $\Delta_{45} = -5 < 0$

(2, 1) \rightarrow (3, 1) \rightarrow (3, 5) \rightarrow (1, 5) \rightarrow (1, 2) \rightarrow (2, 2).

	B ₁	B ₂	B ₃	B ₄	B ₅	
A ₁	10	8	5	9	16	41
A ₂	6	11	4	11	12	40
A ₃	5	10	29	2	6	43
A ₄	9	2	4	1	3	44
A ₅	0	0	0	0	0	45
	9	8	5	9	10	
	V ₁	V ₂	V ₃	V ₄	V ₅	

$$\begin{aligned} a_{11} &= 1 \\ a_{12} &= 8 \\ a_{22} &= 6 \\ a_{33} &= 25 \\ a_{34} &= 2 \\ a_{45} &= 6 \\ a_{44} &= 2 \\ a_{24} &= 1 \end{aligned}$$

$$V_6: \Delta > 0 \Rightarrow \exists! \text{ opt. n.}$$

$$\varphi = 8 \cdot 9 + 5 \cdot 7 + 9 \cdot 1 + 4 \cdot 2 + 3 \cdot 6 + 5 \cdot 4 + 6 \cdot 6 + 7 = 205$$

Geb. 3.000:

	B ₁	B ₂	B ₃	B ₄	B ₅	
A ₁	10	8	5	9	16	17
A ₂	6	11				11/6
A ₃	4	5	4	11	12	8
A ₄		4	4			4/0
A ₅	5	10	29	2	6	10
A ₆	9	2	4	1	3	7/0
A ₇	0	0	0	0	0	0
	6	15	7	9	8	
	0	4/6	8/0	5/0	6/2	

$$\begin{aligned} x_{11} &= 6 \\ x_{12} &= 11 \\ x_{22} &= 4 \\ x_{23} &= 4 \\ x_{33} &= 3 \\ x_{34} &= 2 \\ x_{44} &= 1 \\ x_{55} &= 2 \in \max \end{aligned}$$

3.000 Bsp. 100g.

[4.3 682]

	B ₁	B ₂	B ₃	B ₄	B ₅	B ₆
A ₁						12
A ₂	10	8	5	9	16	11, 5, 3
A ₃		6	5		2	
A ₄	4	3	4	11	12	0
A ₅	5	10	29	12	5	0
A ₆	9	2	4	1	3	0
A ₇						1, 2

$x_{35} = 1$
 $x_{15} = \min(6, 12)$
 $x_{44} = 8$
 $x_{42} = 15$
 $x_{22} = 14$
 $x_{31} = 8$
 $x_{35} = 5$
 $x_{11} = \min(6, 11)$
 $x_{15} = 2$

$$Q = 8 \cdot 6 + 5 \cdot 6 + 16 \cdot 2 + 0 \cdot 3 + 3 \cdot 5 + 5 \cdot 6 + 25 \cdot 1 + 5 \cdot 3 + 2 \cdot 1 + 1 \cdot 8 + 29 = 192 + 28 = 220$$

v_i	v_1	v_2	v_3	v_4	v_5	v_6	$\Delta_{ij} = -5C_{ij}$
u_1	15	8	5	2	16	0	$\Delta_{11} = 2$
u_2	10	8	5	9	16	0	$\Delta_{21} = -6$
u_3	0	6	5		2	3	$\Delta_{22} = 9$
u_4	4	3	4	11	12	0	$\Delta_{25} = 1$
u_5	9	10	29	1	0	0	$\Delta_{27} = 12$
u_6	9	2	4	1	3	0	$\Delta_{34} = 10$
u_7	0	1		8		0	$\Delta_{41} = 0$
u_8	10	8	5	9	16	0	$\Delta_{43} = 5$
u_9	0	2	6		1	3	$\Delta_{45} = -7$
u_{10}	4	3	4	11	12	0	$\Delta_{41} = 7$
u_{11}	9	10	29	1	0	0	$\Delta_{42} = 7$
u_{12}	9	2	4	1	3	0	$\Delta_{43} = 12$
u_{13}	0	1		8		0	$\Delta_{45} = -5$
u_{14}	10	8	5	9	16	0	$\Delta_{14} = -5$
u_{15}	0	2	6		1	3	$\Delta_{14} = 0$
u_{16}	4	3	4	11	12	0	$\Delta_{24} = 0$
u_{17}	9	10	29	1	0	0	$\Delta_{34} = 5$
u_{18}	9	2	4	1	3	0	$\Delta_{11} = -5$
u_{19}	0	1		8		0	$\Delta_{21} = -6$

$(4, 5) \rightarrow (1, 5)$
 $(1, 2) \rightarrow (4, 2)$

$(2, 1) \rightarrow (3, 1)$
 $(3, 5) \rightarrow (1, 5)$
 $(1, 2) \rightarrow (2, 2)$

x_1	4	10	8	5	3	12	0	$b_{11}=1$
x_2	0	8	6			3		$b_{12}=2$
x_3	5	1	2	5	4	11	12	$b_{13}=1$
x_4	-4	5	10	7	2	6	0	$b_{24}=8$
x_5	-2	9	2	4	1	3	0	$b_{25}=3$
x_6	9	8	5	8	10			$b_{15}=6$
x_7								$b_{25}=7$
x_8								$b_{22}=6$
x_9								$b_{34}=3$

$$Y = 8 \cdot 8 + 5 \cdot 6 + 0 \cdot 3 + 4 \cdot 1 + 3 \cdot 2 + 5 \cdot 5 + 29 + 6 \cdot 4 + 8 + 3 = 208$$

$$b_{11} \neq 0 \Rightarrow 3' \text{ opt. n.l.}$$

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B_i	B_1	B_2	B_3	B_4	B_5	B_6
A_1	10	8	5	9	12	0
A_2	6	11				
A_3	4	3	4	11	12	0
A_4	5	10	2	6	0	
A_5	9	2	4	1	3	0
A_6	0	4	8	5	3	

$$x_{11} = 9/11 (6, 17)$$

$$x_{12} = 15/11$$

$$x_{13} = 4/8$$

$$x_{23} = 1$$

Jumlah barang