

low penalty

	destination				Sup ply				
	D ₁	D ₂	D ₃	D ₄					
Q ₁	25	25	12	10	30	0	-	-	-
Q ₂	17	17	20	17	50	5	5	5	8
Q ₃	17	17	10	10	5	10	10	10	10
Dem and	25	25	25	27	125				

TP is balanced as demand = supply

Column	10	10	4	16T
Penalty	10	11	8	12T
	10	-	8	-

We get $m+n-1 = 3+4-1 = 6$ allocations
 so this is non-degenerate T.P.S.
 Initial basic feasible solution.

Allocations:

$x_{14} = 20$	TP value =
$x_{21} = 5$	$10 \times 20 + 10 \times 5 + 10 \times 5 + 10 \times 8 + 10 \times 5 + 10 \times 10 + 10 \times 10 + 10 \times 10$
$x_{22} = 25$	$= 2210$
$x_{23} = 17$	
$x_{32} = 25$	
$x_{34} = 11$	

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