

# Results

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Solution	
q1	100
q2	200
q3	250
q4	300
s1	0
s2	0
s3	100
s4	0
obj	13600

Solution of the problem Purchase plan with decreasing unit costs

Solution	
q1	200
q2	0
q3	0
q4	0
r1	550
r2	0
r3	0
r4	0
s1	600
s2	400
s3	150
s4	0
b1	1
b2	0
b3	0
b4	0
obj	10200

The solution to the same problem with  $m = 10$

With  $M = 100000$

	Solution
q1	200
q2	200
q3	200
q4	120
r1	10
r2	10
r3	10
r4	0
s1	60
s2	70
s3	30
s4	0
b1	1
b2	1
b3	1
b4	0
obj	11240

	Solution
q1	200
q2	0
q3	0
q4	0
r1	550
r2	0
r3	0
r4	0
s1	600
s2	400
s3	150
s4	0
b1	1
b2	0
b3	0
b4	0
obj	10200