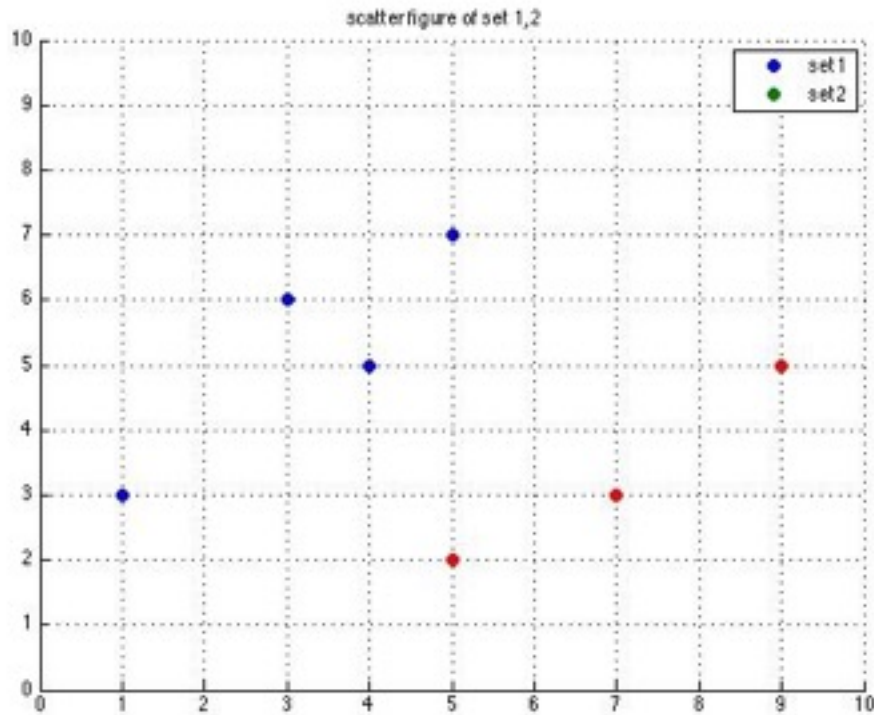


#HW2: Linear programming# code and result log

4.
figure



```
!*****code*****  
MIN= m*m+n*n;  
!MIN=m;  
! m*xi + n* yi +b = 0 is the line;  
  
B*(1*m+3*n+b)>=1;  
B*(5*m+7*n+b)>=1;  
B*(3*m+6*n+b)>=1;  
B*(4*m+5*n+b)>=1;  
  
B*(5*m+2*n+b)<=-1;  
B*(7*m+3*n+b)<=-1;  
B*(9*m+5*n+b)<=-1;
```

-----result-----
[Error Code: 92]

Warning: The current solution may be nonoptimal/infeasible for the current model.

No feasible solution found.

Infeasibilities: 0.7880409+116

Total solver iterations: 0

Elapsed runtime seconds: 2.72

Model is convex quadratic

Model Class: QP

Total variables: 2

Nonlinear variables: 2

Integer variables: 0

Total constraints: 8

Nonlinear constraints: 1

Total nonzeros: 16

Nonlinear nonzeros: 2

Variable	Value	Reduced Cost
M	1.000000	9.000000
N	1.000000	5.000000
B	1.000000	0.000000

Row	Slack or Surplus	Dual Price
1	2.000000	-1.000000
2	0.000000	-73744.00
3	4.000000	0.000000
4	0.000000	0.000000
5	0.000000	0.000000
6	0.000000	0.000000
7	-2.000000	0.000000
8	-2.000000	0.000000
9	-2.000000	1.000000

5.

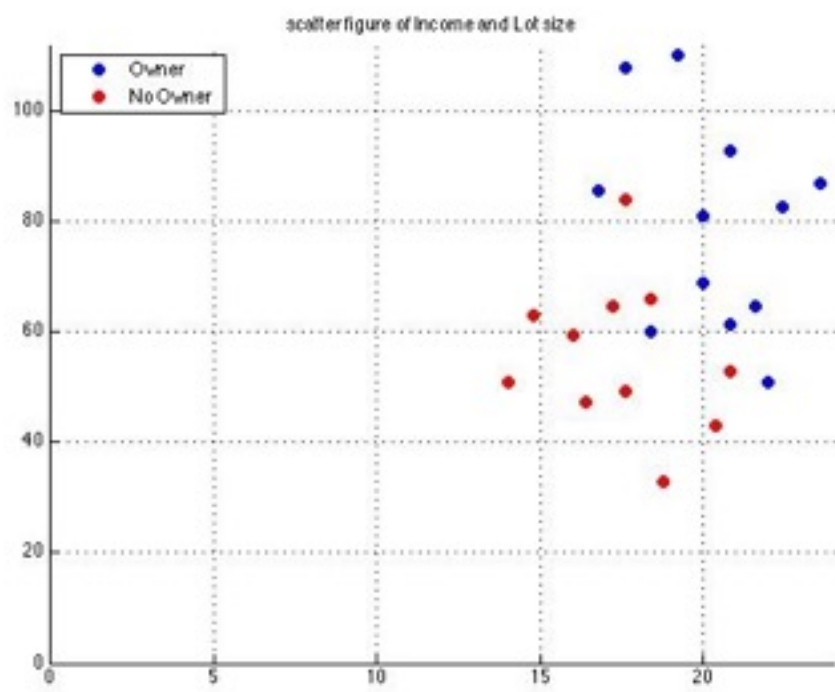


figure: