```
/* x3_1.sas */
/* Purpose:  */

title1 'Example 3.1. (Idea for data model was: y=2x-1)';

data a;
input y a b;
cards;
 1.1 1 1
 4.9 1 3
 6.9 1 4
11.1 1 6
;

proc print data=a;
title2 'List of data.';

proc glm data=a;
  model y=a b /noint xpx inverse solution;
title2 'Analysis by GLM.';

proc glm data=a;
  model y=b /xpx inverse solution;
title2 'Alternative analysis by GLM.';

run;
```

Example 3.1. (Idea for data model was: y=2x-1) 1
List of data.

Obs	y	a	b
1	1.1	1	1
2	4.9	1	3
3	6.9	1	4
4	11.1	1	6

/><><>

b	14	62	110
y	24	110	196.04

Example 3.1. (Idea for data model was: y=2x-1) 8
Alternative analysis by GLM.

The GLM Procedure

X'X Inverse Matrix

	Intercept	b	y
Intercept	1.1923076923	-0.269230769	-1
b	-0.269230769	0.0769230769	2
y	-1	2	0.04

/><><>