```
// 8.1
     #include <stdio.h>
 2
 3
 4
     #define MX 101
 5
     int main(void)
 6
7
         int n;
8
9
         int x[MX], y[MX];
10
         int i, total_x, total_y, total_xy, total_x2;
11
         int m, c;
12
         printf("Enter n : " );
13
         scanf("%d", &n);
14
15
         printf("Enter x_{a}i y_{a}i from 1 to n:\n");
16
         for(i=1; i <= n; ++i) scanf(" %d %d", &x[i], &y[i] );</pre>
17
18
19
         total_x = total_y = total_xy = total_x2 = 0;
         for(i=1; i <= n; ++i){</pre>
20
21
22
             total_xy += x[i]*y[i];
23
24
             total_x += x[i];
25
             total_y += y[i];
26
27
             total_x2 += x[i]*x[i]; // x_i^2
28
         }
29
30
         m = ( n*total_xy - total_x*total_y ) / ( n*total_x2 - (total_x*total_x) );
31
         c = (total_y - m*total_x) / n;
32
33
         printf("m = %d \setminus nc = %d \setminus n", m, c);
34
         return 0;
35
36
     }
37
```