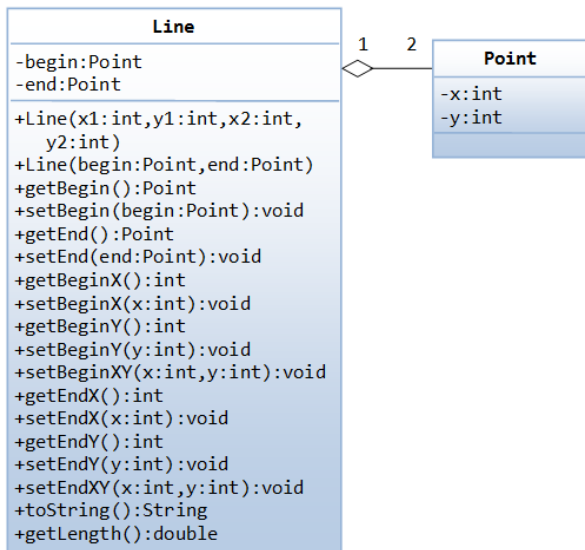


# Line.java



```
1 package by.riit.chapter12;
2
3 /**
4  *
5  */
6 // Объявление Line class
7 public class Line {
8     // Объявление переменных Private
9     Point begin, end; // Declare begin and end as instances of Point
10
11     // Constructors
12     public Line(int x1, int y1, int x2, int y2) {
13         begin = new Point(x1, y1); // Construct Point instances
14         end = new Point(x2, y2);
15     }
16
17     public Line(Point begin, Point end) {
18         this.begin = begin; // Caller constructed Point instances
19         this.end = end;
20     }
21
22     // Public getter u setter для private переменных
23     public Point getBegin() {
24         return begin;
25     }
26
27     public Point getEnd() {
28         return end;
29     }
30
31     public void setBegin(Point begin) {
32         this.begin = begin;
33     }
34
35     public void setEnd(Point end) {
36         this.end = end;
37     }
38 }
```

```

38
39     public int getBeginX() {
40         return begin.getX();
41     }
42
43     public void setBeginX(int x) {
44         begin.setX(x);
45     }
46
47     public int getBeginY() {
48         return begin.getY();
49     }
50
51     public void setBeginY(int y) {
52         begin.setY(y);
53     }
54
55     public void setBeginXY(int x, int y) {
56         begin.setX(x);
57         begin.setY(y);
58     }
59
60     public int getEndX() {
61         return end.getX();
62     }
63
64     public void setEndX(int x) {
65         end.setX(x);
66     }
67
68     public int getEndY() {
69         return end.getY();
70     }
71
72     public void setEndY(int y) {
73         end.setY(y);
74     }
75
76     public void setEndXY(int x, int y) {
77         end.setX(x);
78         end.setY(y);
79     }
80
81     public String toString() {
82         return "Line from " + begin + " to " + end;
83     }
84
85     public double getLength() {
86         int xDiff = begin.getX() - end.getX();
87         int yDiff = begin.getY() - end.getY();
88         return Math.sqrt(xDiff * xDiff + yDiff * yDiff);
89     }
90 }

```