```
View Javadoc
                                            package model.element.motionless;
\frac{3}{4} \frac{4}{5} \frac{6}{5} \frac{7}{8} \frac{9}{9} \frac{11}{12} \frac{
                                          import java.awt.Image;
                                          import java.io.IOException;
                                          import javax.imageio.ImageIO;
                                            import contract.ElementType;
                                            import contract.IElement;
                                                                                    /** The x */
                                                                                      /** The y */
                                                                                             * @param x
                                                                                            * @param y
                                                                                  }
                                                                                             * @return x
                                                                                    @Override
                                                                                             * @param x
                                                                                    @Override
```

```
import contract.ILevelMap
import model.element.LevelMap;
* The Class Diamond.
 * @author Group 5
public class Block implements IElement {
     /** The score */
    private int score = 0;
    /** The exist boolean */
    private boolean exist = true;
    /** The elementType */
    private ElementType elementType = ElementType.BLOCK;
    private int x;
    private int y;
    /** The Levelmap */
    private <u>ILevelMap</u> levelmap;
    /** The image */
    private static Image image;
    /** The imageName */
    private String imageName = "cobblestone";
     * constructor to build and place Block
                    The x.
                    The y.
       @param levelMap
                    The LevelMap.
    public Block(final int x, final int y, LevelMap levelMap) {
             this.setX(x);
            this.setY(y);
            this.setImageName(imageName);
            this.loadImage();
            this.setLevelmap(levelMap);
     * Get x position of Block
    public int getX() {
            return this.x;
     * Set x position of Block
                    The x.
    public void setX(int x) {
            this.x = x;
     * Get y position of Block
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* @return y
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           @Override
          public int getY() {
                    return this.y;
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           * Set y position of Block
<u>104</u>
            * @param y
<u>105</u>
                              The y.
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           @Override
          public void setY(int y) {
                    this.y = y;
           * Move up the player when up key are pressed
          @Override
          public void moveUp() {
                    this.setY(this.getY() - 1);
                    this.levelmap.setElement(this.getX(), this.getY(), this);
                    this.levelmap.removeElement(getX(), getY()+1);
          }
           * Move down the player when down key are pressed
           */
          @Override
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          public void moveDown() {
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                    this.setY(this.getY() + 1);
                    this.levelmap.setElement(this.getX(), this.getY(), this);
                    this.levelmap.removeElement(getX(), getY()-1);
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           * Move left the player when left key are pressed
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 <u> 142</u>
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           @Override
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           public void moveLeft() {
<u>146</u>
                    this.setX(this.getX() - 1);
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<u>148</u>
                    this.levelmap.setElement(this.getX(), this.getY(), this);
<u>149</u>
                    this.levelmap.removeElement(getX()+1, getY());
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           }
           st Move right the player when right key are pressed
           */
          @Override
          public void moveRight() {
                    this.setX(this.getX() + 1);
                    this.levelmap.setElement(this.getX(), this.getY(), this);
                    this.levelmap.removeElement(getX()-1, getY());
          }
           * do nothing the player when player don't move
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          @Override
          public void doNothing() {
                    this.setY(this.getY());
                     this.levelmap.setElement(this.getX(), this.getY(), this);
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           * Get image of Block
            * @return image
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           @Override
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          public Image getImage() {
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<u>183</u>
                    return Block.image;
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```

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<u>185</u>
<u>186</u>
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         * Set image of Block
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         * @param image
                                  The image.
@Override
        public void setImage(Image image) {
                Block.image = image;
         * Load image of Block
        @Override
        public void loadImage() {
                 Image img = null;
                 try {
                         img = ImageIO.read(getClass().getClassLoader().getResourceAsStream("images/" + this.getImageName() + ".png"));
                 catch(IOException e) {
                         e.printStackTrace();
                 this.setImage(img);
        }
         * Get image name of block
         * @return imageName
        @Override
        public String getImageName() {
                 return this.imageName;
         * Set image name of diamond
         * @param imageName
                                           The image name.
        @Override
        public void setImageName(String imageName) {
                 this.imageName = imageName;
        }
         * check existing of diamond
         * @return exist
        @Override
        public boolean isExist() {
                return this.exist;
        }
         * set exist verification of Block
         * @param exist
                                  The exist state.
        @Override
        public void setExist(boolean exist) {
                this.exist = exist;
         * Get level
         * @return level map
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        public ILevelMap getLevelmap() {
                return levelmap;
         * Set Level
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         * @param levelmap
                                           The LevelMap.
```

```
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public void setLevelmap(ILevelMap levelmap) {
                   this.levelmap = levelmap;
          * Get score of collected diamond
*
          * @return score
         @Override
         public int getScore() {
                   return score;
          * Set score of collected diamond
          * @param score
                                      The score.
         @Override
         public void setScore(int score) {
                   this.score = score;
          * Get element type of Block
           * @return element type
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330 }
         @Override
         public ElementType getElementType() {
                   return elementType;
          * Set element type of diamond
          * @param elementType
                                                The elementType.
         public void setElementType(<u>ElementType</u> elementType) {
                   this.elementType = elementType;
```

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