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<%@ page import="java.util.Random" %>
<%@ page import="java.awt.image.BufferedImage" %>
<%@ page import="java.awt.*" %>
<%@ page import="javax.imageio.ImageIO" %> <%--
    Created by IntelliJ IDEA.
    User: DELL
    Date: 2019/9/15
    Time: 20:13
    To change this template use File | Settings | File Templates.
--%>
<%@ page contentType="text/html; charset=UTF-8" language="java" %>
<html>
<head>
    <title>img</title>
</head>
<body>
    <%!
        //随机产生颜色值
        public Color getColor(){
            Random random=new Random();
            int r= random.nextInt(255);
            int g= random.nextInt(255);
            int b= random.nextInt(255);
            return new Color(r,g,b);
        }

        //产生验证码值
        public String getNum(){
            int ran=(int)(Math.random()*9000)+1000;
            return String.valueOf(ran);
        }
    %>

    <%
        //禁止缓存,防止验证码过期
        response.setHeader("pragma","no-cache");
        response.setHeader("cache-control","no-cache");
        response.setHeader("expires","0");

        //绘制验证码
        BufferedImage image=new BufferedImage(80,30,BufferedImage.TYPE_INT_RGB);
        //画笔
        Graphics graphics=image.getGraphics();
        graphics.fillRect(0,0,80,30);
        //绘制干扰线条
        for(int i=0;i<60;i++){
    
```

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    Random ran=new Random();
    int xBegin=ran.nextInt(80);
    int yBegin=ran.nextInt(30);
    int xEnd=ran.nextInt(xBegin+10);
    int yEnd=ran.nextInt(yBegin+10);
    graphics.setColor(getColor());
    graphics.drawLine(xBegin,yBegin,xEnd,yEnd);
}
//绘制验证码
graphics.setFont(new Font("seif",Font.BOLD,20));
graphics.setColor(Color.BLACK);
String checkCode=getNum();
StringBuilder sb=new StringBuilder();
for(int i=0;i<checkCode.length();i++){
    sb.append(checkCode.charAt(i)+""); //验证码的每一位数字
}
graphics.drawString(sb.toString(),15,20); //绘制验证码

//将验证码真实值保存在session中,供使用时比较
session.setAttribute("checkCode",checkCode);

//真实的产生图片
ImageIO.write(image,"jpeg",response.getOutputStream());

//关闭
out.clear();
out=pageContext.pushBody(); //<input type="image" src="xxx"/>
%>
</body>
</html>

```