

```

import java.util.regex.Matcher;
import java.util.regex.Pattern;

/**
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 *
 */
public class FileNameParser {
    // http://www.mkyong.com/regular-expressions/10-java-regular-
    // expression-examples-you-should-know/
    // Year: (19[0-9][0-9]) or (20[0-9][0-9])
    // Month: (01-09) or (10,11,12)
    // Day: (01-09) or (10-19 or 20-29) or (30, 31)
    /*User has to provide a valid date format, e.g., 20120430,
    otherwise like 2012111, could be Nov 1, or Jan 11*/
    private static final String BUSINESS_DATE_PATTERN =
    "[^\\s]+(19\\d\\d|20\\d\\d)(0[1-9]|1[012])(0[1-9]|12)[0-
    9]|3[01])[^\\s]+";
    private static final char FILENAME_SEPARATOR = '_';
    // private static final String BUSINESS_DATE_PATTERN =
    "[^\\s]+((19|20)\\d\\d){1,1}(0?[1-9]|1[012]){1,1}(0?[1-9]|12)[0-
    9]|3[01]){1,1}[^\\s]+";
    /**
     * @param args
     */
    public static void main(String[] args) {
        // TODO Auto-generated method stub

        String testName[] = { "ABA_ARIB_20120430_Coupon.txt",
            "MBA_ARIB_19991113_Coupon.xls",
            "SNP_STD_20120518_Coupon.xlst" };
        Pattern pattern = Pattern.compile(BUSINESS_DATE_PATTERN);
        for(int i=0;i<testName.length;i++){
            Matcher matcher = pattern.matcher(testName[i]);

            if(matcher.matches()){
                matcher.reset();
                if(matcher.find()){
                    String year = matcher.group(1);
                    String month = matcher.group(2);
                    String day = matcher.group(3);
                    System.out.println("The current
year = " + year + " month = " + month + " day = "+day);
                }else{
                    System.out.println("The input " +
testName[i] + " is not valid!");
                }
            }else{
                throw new IllegalArgumentException("The
input file does not specify a valid business date");
            }

            int businessNameEndPosition =
testName[i].indexOf(FILENAME_SEPARATOR);
            String lob = testName[i].substring(0,
businessNameEndPosition);
            System.out.println("The business name is " + lob);
        }
    }
}

```

}

}

}