DUT Info2 **2016/2017**
Date de rendu : 11 / 10 / 2017
Groupe TD : **D**
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TP5 : Entrées/sorties

L'objectif du TP est de réaliser des extraction d'information dans des chaînes de caractères. Ce travail est à réaliser en Java et sera réutilisé pour le dernier TP du module.

Code Complet :

```
import java.util.StringTokenizer;

public class Traitement {

    public static String[] tests = {
            "send A 1",
            "answer B 3",
            "guest bob",
            "return A",
            "close",
            "full",
            "quit"
    };

    public static void main(String[] args) {
        for (String ligne : tests) {
            StringTokenizer st = new StringTokenizer(ligne);
            while(st.hasMoreTokens()) {
                String word = st.nextToken();
                System.out.println(word);
            }
        }
    }

}
```

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

public class Automate {

    public static String[] tests = {
    "140824 07:09:30 alice: guest bob",
    "140824 07:09:31 alice: guest grpA:bob",
    "140824 07:09:32 alice: guest grpA:",
    "140824 07:09:33 bob: welcome alice@10.0.0.1:8080",
    "140824 07:09:34 alice: welcome bob@10.0.0.2:8081,
chalie@10.0.0.1:8082",
    "140824 07:09:35 alice: send 10.0.0.1:8080-A",
    "140824 07:09:36 alice: answer 10.0.0.1:8082-C",
    "140824 07:09:37 alice: reject 10.0.0.1:8080-A",
    "140824 07:09:38 alice: close",
    "140824 07:09:39 bob: full",
```

```
    "140824 07:09:40 bob: done 10.0.0.2:8081-[ACD] 10.0.0.2:8082-[BD]
10.0.0.2:8083-F"
    };

    public static String expressionCommande ="[a-z]*\\s+";
    public static String expressionDate ="(\\d{6})\\s(\\d{2}):(\\d{2}):
(\\d{2})\\s*(.+)\\s*";
    public static String regxAdresseIp = "((\\d{1,3}).(\\d{1,3}).(\\d{1,3}).
(\\d{1,3}):(\\d{1,5}))";
    public static String regxAdressePort = "((-\\w)?|(-\\[\\w+\\])?)";
    public static String regxAdresseFinal = "("+ regxAdresseIp +
regxAdressePort + ",?\\s*)*";
    public static String regxUtilisateur = "(((\\w)*)|((\\w)*:(\\w)*)|
((\\w)*@"+regxAdresseFinal+"|"+regxAdresseFinal+")*)";
    public static String expressionCorrect =
expressionDate+expressionCommande+regxUtilisateur;


    public static String[] commande = {
            "guest",
            "welcome",
            "send",
            "answer",
            "reject",
            "close",
            "full",
            "done"
    };

    public static void main(String[] args) {
        for(String ligne : tests) {
            executerLigne(ligne);
        }
    }

    private static boolean isDate(String date) {
        Pattern p = Pattern.compile(expressionDate);
        Matcher m = p.matcher(date);
        return m.matches();
    }

    public static String recupererMethode (String ligne) {
        String ret ="erreur";
        Pattern p = Pattern.compile(expressionCorrect);
        Matcher m = p.matcher(ligne);
        boolean bol = m.matches();
        boolean trouve = false;

        if(bol) {
            for(int i=0;i<commande.length && !trouve;i++) {
                if(ligne.contains(commande[i])) {
                    ret = commande[i];
                    trouve=true;
                }
            }
        }
        return ret;
    }
```

```
    public static void executerLigne(String ligne) {
        String res = recupererMethode(ligne);
        if(res.equals("guest")) {
            guest();
        }else if(res.equals("welcome")){
            welcome();
        }else if(res.equals("send")){
            send();
        }else if(res.equals("answer")){
            answer();
        }else if(res.equals("reject")){
            reject();
        }else if(res.equals("close")){
            close();
        }else if(res.equals("full")){
            full();
        }else if(res.equals("done")){
            done();
        }
    }

    public static void guest() {
        System.out.println("guest");
    }

    public static void welcome() {
        System.out.println("welcome");
    }

    public static void send() {
        System.out.println("send");
    }

    public static void answer() {
        System.out.println("answer");
    }

    public static void reject() {
        System.out.println("reject");
    }

    public static void close() {
        System.out.println("close");
    }

    public static void full() {
        System.out.println("full");
    }

    public static void done() {
        System.out.println("done");
    }

}
```