

COMPTE RENDU TP2 RESEAU

IP et URL

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Valider une adresses ip

```
public class IpUtils {  
    public static boolean isValid(String ip){  
        String[] parts = ip.split("\\.");  
        if(parts.length != 4){  
            return false;  
        }  
        else{  
            for(String part : parts){  
                try{  
                    int num = Integer.parseInt(part);  
                    if(num < 0 || num > 255){  
                        return false;  
                    }  
                } catch(NumberFormatException e){  
                    return false;  
                }  
            }  
        }  
        return true;  
    }  
    public static void main(String args){  
        Scanner scanner = new Scanner(System.in);  
        System.out.print("entrez l'ip : ");  
        String ip = scanner.nextLine();  
        System.out.println("l'ip est : " + ip);  
        System.out.println("valid : " + IpUtils.isValid(ip));  
    }  
}
```

Hote local

```
try{
    InetAddress addressLocal = InetAddress.getLocalHost();
    System.out.println("Local Host IP: " + addressLocal.getHostAddress());
    System.out.println("Local Host Name: " + addressLocal.getHostName());
    System.out.println("Local Host Name: " +
        InetAddress.getByName("www.google.com").getHostAddress());
} catch (Exception e){
    System.out.println("Exception caught = "+e.getMessage());
}
```

IsReachable

```
try{
    InetAddress addressLocal = InetAddress.getLocalHost();
    String ip1 = "127.0.0.1";
    String ip2 = "133.192.31.42";
    String ip3 = "145.154.42.58";
    String googleIp = "142.250.200.132";
    InetAddress adress1 = InetAddress.getByName(ip1);
    InetAddress adress2 = InetAddress.getByName(ip2);
    InetAddress adress3 = InetAddress.getByName(ip3);
    InetAddress googleAddress = InetAddress.getByName(googleIp);
    System.out.println(adress1.isReachable(1000));
    System.out.println(adress2.isReachable(1000));
    System.out.println(adress3.isReachable(1000));
    System.out.println(googleAddress.isReachable(1000));
} catch (Exception e){
    System.out.println("Exception caught = "+e.getMessage());
}
```

Les differents composant d'un url

```
public static void qestion4() throws MalformedURLException {  
    String link = "https://github.com:80/Dabaghi-Anass?tab=repositories";  
    URL url = new URL(link);  
    System.out.println("Protocol: "+url.getProtocol()); //https  
    System.out.println("Host: "+url.getHost()); //github.com  
    System.out.println("Port: "+url.getPort()); //80  
    System.out.println("Path: "+url.getPath()); //Dabaghi-Anass  
    System.out.println("Query: "+url.getQuery()); //tab=repositories  
}
```