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Correction Examen 2018

Partie 1

```
1) public interface Publiable {
    public abstract void publier();
    public abstract void commenter (String c);
    public abstract void aimer ();}

2) import java.util.Date;
import java.util.ArrayList;
public abstract class Contenu implements Publiable{
    protected String auteur;
    protected ArrayList <String> Commentaires;
    protected int nbAime=0;
    protected Date datePub;
    public Contenu (String a)
    {   auteur = a;
        datePub = new Date();
        Commentaires = new ArrayList <String> (); }
    public void commenter (String c)
    {   Commentaires.add(c); }
    public void aimer ()
    { nbAime++; }}

3) ** Classe Statut
public class Statut extends Contenu
{   private String texte;
    public Statut (String a, String t)
    {   super (a);
        texte = t; }
    public void publier()
    {   System.out.println ("*****");
        System.out.println (texte);
        System.out.println (" publié par " + auteur + " le " + datePub);
        System.out.println ( Commentaires.size()+ " commentaires " + nbAime + " j'aime");
        for (int i=0; i< Commentaires.size();i++)
        {   System.out.println ("\t\t " +Commentaires.get(i));}
        System.out.println ("*****");}}
```

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Partie 2

1) Classe Page FB

```
import java.util.ArrayList;
import java.util.Scanner;
```

```

public class PageFB
{
    private final String proprietaire;
    protected ArrayList <Contenu> publications;
    private final String login;
    private String motPasse;
    private int nbAncienPub=0;
    public PageFB (String p, String l, String m)
    {
        proprietaire= p;
        publications = new ArrayList <Contenu> ();
        login = l;
        motPasse = m; }

    public boolean authentifier (String l, String m)
    {
        return (login.equals(l) && motPasse.equals(m) );}
    public void AfficherPage() throws LoginPwdIncorrect
    {
        Contenu c; String l; String m;
        Scanner sc = new Scanner (System.in);
        System.out.println ("Login: ");
        l=sc.next();
        System.out.println ("Mot de passe :");
        m=sc.next();
        if (authentifier (l, m))
        {
            System.out.println ("*****");
            System.out.println ("Page de " + proprietaire);
            System.out.println (" Le nombre de nouvelles publications"+
getNbNouvellesPub() );
            for (int i= publications.size()-1; i>=0; i--)
            {
                c = publications.get(i);
                c.publier(); }
            System.out.println ("*****");
            nbAncienPub= publications.size(); }
        else
            throw new LoginPwdIncorrect ("Login et mot de passe incorrects"); }
    public Contenu getPublication (int i)
    {
        return publications.get(i-1); }
    public int getNbNouvellesPub()
    {
        int nb=0, d;
        d= publications.size()- nbAncienPub;
        if ( d>0)
            nb=d;
        return nb; }
    public void publierStatut(String s)
    {
        Statut sa = new Statut (proprietaire, s);
        publications.add(sa);}

```

**** Exception LoginPwdIncorrect**

```
public class LoginPwdIncorrect extends Exception{
    public LoginPwdIncorrect (String m)
    { super (m); }}
```

Partie 3

```
import java.util.ArrayList;
```

```
import java.util.Scanner;
```

```
public class SystemeFB {
```

```
    public static void main (String [] argv)
```

```
{    PageFB p1= new PageFB ("Mohamed Khlifi", "mohamed", "xxx");
```

```
    PageFB p2= new PageFB ("Cyrine Baklouti", "cyrine", "yyy");
```

```
    p1.publierStatut("Bonjour les amis ");
```

```
    p2.publierStatut("On va gagner !!!! ");
```

```
    p1.publierStatut("j-1, RDV demain à 9h, vous pouvez gagner plein de cadeaux");
```

```
        try
```

```
        { p1.AfficherPage(); }
```

```
        catch (LoginPwdIncorrect e)
```

```
        { System.out.println (e.getMessage()); }
```

```
        Contenu c= p1.getPublication(1);
```

```
        c.aimer();
```

```
        c.commenter("Merci");
```

```
        try
```

```
        { p2.AfficherPage(); }
```

```
        catch (LoginPwdIncorrect e)
```

```
        { System.out.println (e.getMessage()); }
```

```
        try
```

```
        { p1.AfficherPage();}
```

```
        catch (LoginPwdIncorrect e)
```

```
        {System.out.println (e.getMessage()); }
```

```
    }}
```