

# Rapport TP Exception

## Exercise 1:



```
1 package EX1;
2
3 public class ErrConst extends Exception {
4     public ErrConst(String message) {
5         super(message);
6     }
7 }
```



```
1 package EX1;
2
3 public class EntNat {
4     private int n;
5
6     public EntNat(int n) throws ErrConst{
7         if(n < 0) throw new ErrConst("Ce nombre ne peut pas être négatif.");
8         this.n = n;
9     }
10
11     public int getN() {
12         return n;
13     }
14 }
```



```
1 package EX1;
2
3 public class TestEntNat {
4     public static void main(String[] args) {
5         try {
6             EntNat entNat1 = new EntNat(11);
7             System.out.println("entNat1 : " + entNat1.getN());
8             EntNat entNat2 = new EntNat(-9);
9             System.out.println("entNat2 : " + entNat2.getN());
10
11         } catch (ErrConst e) {
12             System.out.println(e.getMessage());
13         }
14     }
15 }
```

## Exercise 2:



```
1 package EX2;
2
3 public class ErrDiff extends Exception{
4     public ErrDiff(String message) {
5         super(message);
6     }
7 }
```



```
1 package EX2;
2
3 public class EntNat {
4     public static int somme(int a,int b) throws ErrSom {
5         if(a + b < 0) throw new ErrSom("Somme superieure a MAX_VALUE");
6         return a + b;
7     }
8
9     public static int difference(int a,int b) throws ErrDiff {
10        if(a - b < 0) throw new ErrDiff("Différence superieure a MAX_VALUE");
11        return a - b;
12    }
13
14    public static int produit(int a,int b) throws ErrProd {
15        if(a * b < 0) throw new ErrProd("Produit superieure a MAX_VALUE");
16        return a * b;
17    }
18 }
```



```
1 package EX2;  
2  
3 public class ErrSom extends Exception{  
4  
5     public ErrSom(String message) {  
6         super(message);  
7     }  
8 }
```



```
1 package EX2;  
2  
3 public class ErrProd extends Exception{  
4     public ErrProd(String message) {  
5         super(message);  
6     }  
7 }
```

```
1 package EX2;
2
3 public class TestEntNat {
4     public static void main(String[] args) {
5         try {
6             System.out.println("la somme :" + EntNat.somme(10, 9));
7             System.out.println(EntNat.somme(Integer.MAX_VALUE , 12));
8
9         } catch (ErrSom e) {
10             System.out.println(e.getMessage());
11             try {
12                 System.out.println("Difference :" + EntNat.difference(9, 3));
13                 System.out.println(EntNat.difference(Integer.MAX_VALUE +4, 1));
14
15             } catch (ErrDiff e1) {
16                 System.out.println(e1.getMessage());
17                 try {
18                     System.out.println("produit :" + EntNat.produit(5, 1));
19                     System.out.println(EntNat.produit(Integer.MAX_VALUE +3, 19));
20                 } catch (ErrProd e2) {
21                     System.out.println(e2.getMessage());
22                 }
23             }
24         }
25     }
26 }
```