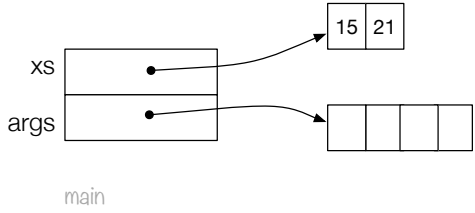
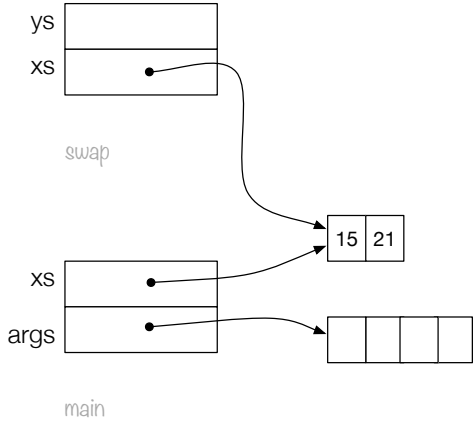
```java
public class TestSwapArrayInt {

    public static void swap(int[] xs) {

     int[] ys;
     ys = new int[2];

     ys[0] = xs[1];
     ys[1] = xs[0];

     xs = ys;

    }

    public static void main(String[] args) {

     int[] xs;
     xs = new int[2];

     xs[0] = 15;
     xs[1] = 21;

     swap(xs);

     System.out.println(xs[0]);
     System.out.println(xs[1]);

    }
}
```



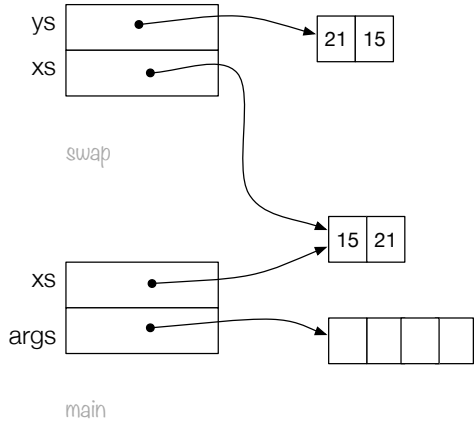
Mémoire de travail de la méthode **main**.

```java
public class TestSwapArrayInt {

    public static void swap(int[] xs) {

     int[] ys;
     ys = new int[2];

     ys[0] = xs[1];
     ys[1] = xs[0];

     xs = ys;

    }

    public static void main(String[] args) {

     int[] xs;
     xs = new int[2];

     xs[0] = 15;
     xs[1] = 21;

     swap(xs);

     System.out.println(xs[0]);
     System.out.println(xs[1]);

    }
}
```



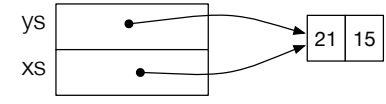
Appel à la méthode **swap**. On copie la valeur du **paramètre actuel** dans le **paramètre formel**.

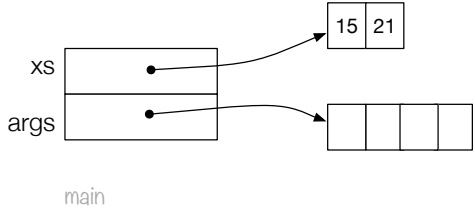
```java
public class TestSwapArrayInt {

    public static void swap(int[] xs) {

     int[] ys;
     ys = new int[2];

     ys[0] = xs[1];
     ys[1] = xs[0];

     xs = ys;

    }

    public static void main(String[] args) {

     int[] xs;
     xs = new int[2];

     xs[0] = 15;
     xs[1] = 21;

     swap(xs);

     System.out.println(xs[0]);
     System.out.println(xs[1]);

    }
}
```



On crée un tableau et l'on sauve la référence dans la variable **ys**. On copie maintenant **xs[1]** dans **ys[0]** et **xs[0]** dans **ys[1]**.

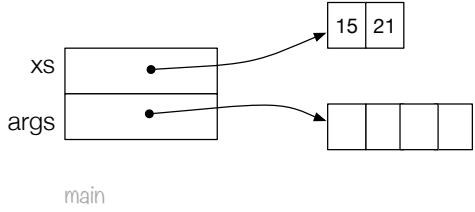
```java
public class TestSwapArrayInt {

    public static void swap(int[] xs) {

     int[] ys;
     ys = new int[2];

     ys[0] = xs[1];
     ys[1] = xs[0];

     xs = ys;

    }

    public static void main(String[] args) {

     int[] xs;
     xs = new int[2];

     xs[0] = 15;
     xs[1] = 21;

     swap(xs);

     System.out.println(xs[0]);
     System.out.println(xs[1]);

    }
}
```





Copier le contenu de **ys** dans **xs** (le paramètre formel de la méthode **swap**).

```java
public class TestSwapArrayInt {

    public static void swap(int[] xs) {

     int[] ys;
     ys = new int[2];

     ys[0] = xs[1];
     ys[1] = xs[0];

     xs = ys;

    }

    public static void main(String[] args) {

     int[] xs;
     xs = new int[2];

     xs[0] = 15;
     xs[1] = 21;

     swap(xs);

     System.out.println(xs[0]);
     System.out.println(xs[1]);

    }
}
```



Retour à la méthode **main**. La mémoire de travail de la méthode **swap** est détruite. Affiche le contenu de **xs[0]** et **xs[1]** (la variable locale **xs** de la méthode **main**).