Estructura de Datos Abstractos

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Clase Quick

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Test

QuickF

In

Out
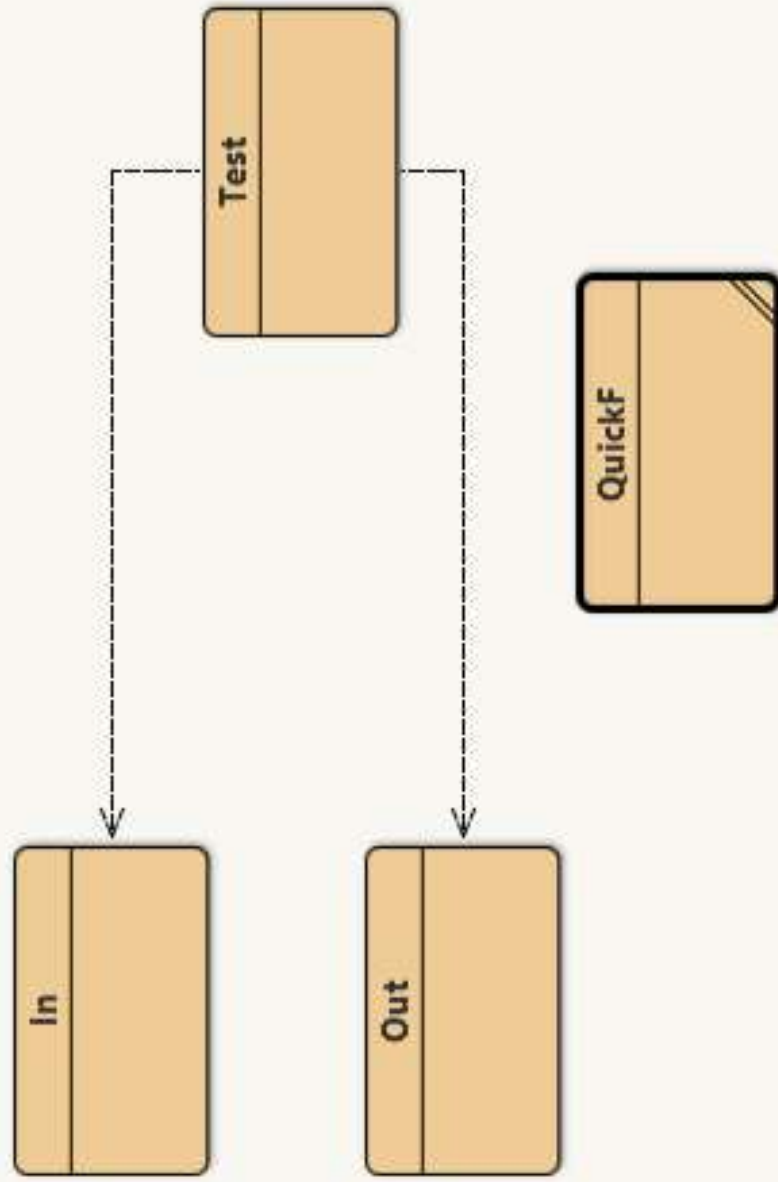
```java
1
2  /**
3   * Algoritmo para realizar una busqueda
4   *
5   * @author Omar Ganem
6   * @version 21 September 2023
7   */
8  public class QuickF
9  {
10     public static void main(String[] args){
11         int n = Integer.parseInt(args[0]);
12         int id[] = new int[n];
13
14         for(int i = 0; i < n; i++){
15             id[i] = i;
16         }
17     }
18 }
19
```

```java
/**
 * Clase para probar los metodos
 *
 * @author Omar Ganem
 * @version 21 September 2023
 */
public class Test
{
    public static void main(String[] args){
        System.out.print("\u000C"); //limpia la consola
        Out.WriteLine(In.GetString());
    }
}
```

```
 1  /**
 2   * Para leer datos
 3   *
 4   * @author Omar Ganem
 5   * @version 21 September 2023
 6   */
 7  import java.io.*; //paquete de input y ouput
 8  public class In
 9  {
10      private static int c;
11
12      private static boolean Blanco(){
13      return Character.isWhitespace((char) c);
14      }
15
16      private static void ReadC(){
17          try{
18
19              c = System.in.read();
20          }catch(IOException ex){
21              c = -1;
22          }
23      }
24
25      public static void Init(){
26          ReadC();
27      }
28
29      public static boolean Empty(){
30          return c == -1;
31      }
32
33      public static String GetString(){
34          if (Empty()){
35              return null;
36          }
37          String s = "";
38          do{
39              s = s + (char)c;
40              ReadC();
41          }while(!(Empty() || Blanco()));
42          while(!(Empty() && Blanco())){
43              ReadC();
44          }
45          return s;
46      }
47
48      public static int GetInt(){
49          return Integer.parseInt(GetString());
50      }
```

```
51
52      public static double GetDouble(){
53          return Double.parseDouble(GetString());
54      }
55  }
56
```

```java
 1
 2  /**
 3   * va a ser la salida de el programa
 4   *
 5   * @author Omar Ganem
 6   * @version 21 September 2023
 7   */
 8  public class Out
 9  {
10      public static void Write (String s)
11      {
12          System.out.print(s);
13      }
14
15      public static void WriteLine(String s)
16      {
17          System.out.println(s);
18      }
19  }
20
```

```
 1  ------------------------------------------------------------------------
 2  This is the project README file. Here, you should describe your project.
 3  Tell the reader (someone who does not know anything about this project)
 4  all they need to know. The comments should usually include at least:
 5  ------------------------------------------------------------------------
 6
 7  PROJECT TITLE:
 8  PURPOSE OF PROJECT:
 9  VERSION or DATE:
10  HOW TO START THIS PROJECT:
11  AUTHORS:
12  USER INSTRUCTIONS:
13
```