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[https://bitbucket.org/mkhaliki/assignment-13-e18.12-p18.1-and-p18.4/  
src/master/](https://bitbucket.org/mkhaliki/assignment-13-e18.12-p18.1-and-p18.4/src/master/)

Assignment 13 src E18\_12

Project E18\_12.java P18\_1.java P18\_4.java

Assignment 13 ~\Documents  
├── .idea  
├── out  
└── src  
 ├── E18\_12  
 ├── P18\_1  
 └── P18\_4  
Assignment 13.iml  
External Libraries  
Scratches and Consoles

```
1 import java.util.ArrayList;
2
3 public class E18_12 {
4     @ public static <T extends Iterable<E>, E> void print(T list) {
5         int count = 0;
6         for (E e : list) {
7             if (count++ != 0)
8                 System.out.print(", " + e);
9             else
10                 System.out.print(e);
11         }
12         System.out.println();
13     }
14
15     public static void main(String[] args) {
16         ArrayList<Integer> ints = new ArrayList<>();
17         ints.add(1);
18         ints.add(3);
19         ints.add(4);
20         ints.add(5);
21         print(ints);
22     }
23 }
```

E18\_12

Run: E18\_12

Library/Java/JavaVirtualMachines/jdk1.8.0\_91.jdk/Contents/Home/bin/java ... <1 internal call>  
1, 3, 4, 5

Process finished with exit code 0

Terminal Messages Run TODO

Build completed successfully in 2 s 330 ms (moments ago)

14:1 LF UTF-8 4 spaces

Event Log

1: Project

Assignment 13

src

Assignment 13

out

src

E18\_12

P18\_1

P18\_4

Assignment 13.iml

External Libraries

Scratches and Consoles

E18\_12.java

P18\_1.java

P18\_4.java

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public static <E extends Measurable> Pair<E, E> minMax(E[] arr) {

if (arr.length == 0) return null;

E min = arr[0];

E max = arr[0];

for (int i = 0; i < arr.length; i++) {

if (arr[i].getMeasure() < min.getMeasure()) {

min = arr[i];

}

if (arr[i].getMeasure() > max.getMeasure()) {

max = arr[i];

}

}

return new Pair<>(min, max);

}

public static void main(String[] args) {

DoubleValue[] list = new DoubleValue[4];

list[0] = new DoubleValue(10);

list[1] = new DoubleValue(0);

list[2] = new DoubleValue(1);

P18\_1

minMax()

Run: P18\_1

Library/Java/JavaVirtualMachines/jdk1.8.0\_91.jdk/Contents/Home/bin/java ... <1 internal call>

Min = 0.0

Max = 10.0

Process finished with exit code 0

Terminal

4: Run

6: TODO

Event Log

25:14 LF UTF-8 4 spaces

Assignment 13 | src | P18\_4

Project | Assignment 13 | .idea | out | src | E18\_12 | P18\_1 | P18\_4 | Assignment 13.iml | External Libraries | Scratches and Consoles

E18\_12.java | P18\_1.java | P18\_4.java

```
1 import java.util.ArrayList;
2
3 public class P18_4 {
4     public interface GenericMeasurable<S> {
5         Integer getMeasure();
6     }
7
8     @
9     public static <T extends GenericMeasurable> T max(ArrayList<T> arr) {
10         if (arr.size() == 0) return null;
11         T max = arr.get(0);
12         for (T a : arr)
13             if (a.getMeasure() > max.getMeasure())
14                 max = a;
15         return max;
16     }
17
18     public static void main(String[] args) {
19         ArrayList<GenericMeasurable<Integer>> arr = new ArrayList<>();
20         arr.add(new GenericMeasurable() {...});
21         arr.add(new GenericMeasurable() {...});
22         arr.add(new GenericMeasurable() {...});
23         arr.add(new GenericMeasurable() {...});
24         arr.add(new GenericMeasurable() {...});
25         arr.add(new GenericMeasurable() {...});
26         arr.add(new GenericMeasurable() {...});
27         arr.add(new GenericMeasurable() {...});
28         arr.add(new GenericMeasurable() {...});
29         arr.add(new GenericMeasurable() {...});
30     }
31 }
```

P18\_4 > max()

Run: P18\_4

/Library/Java/JavaVirtualMachines/jdk1.8.0\_91.jdk/Contents/Home/bin/java ... <1 internal call>

Largest = 15

Process finished with exit code 0

Terminal | 4: Run | 6: TODO

All files are up-to-date (moments ago)

10:25 LF UTF-8 4 spaces

Event Log