

# Worksheet: Java Streams

What will the following piece of code print?

```
List<String> list = Arrays.asList("Rice", "Owls", "are", "the", "best");
String answer =
    list.stream()
        .skip(1)
        .map(e -> {
            System.out.println("Map was called on " + e);
            return e.substring(0, 3);
        })
        .filter(e -> {
            System.out.println("Filter was called on " + e);
            return e.charAt(2) == 'e';
        })
        .findFirst()
        .get();

System.out.println(answer);
```

Will your answer change (and how), if you replace `list.stream()` with `list.stream.parallel()`?

Map was called on Owls  
Filter was called on Owl  
Map was called on are  
Filter was called on are  
are

Could be anything that has  
both a Map and a Filter on "are".  
For example:

Map was called on are  
Filter was called on are  
Map was called on best  
Filter was called on bes  
Map was called on Owls  
Filter was called on Owl  
are

