

Java 26 CodeSignal Interview Guide

Part 1 - Reverse a HashMap (Value -> Key)

Problem: Reverse a Map<K,V> into Map<V,K>.

```
public static <K, V> Map<V, K> reverse(Map<K, V> input) {  
    Map<V, K> result = new HashMap<>();  
    for (Map.Entry<K, V> entry : input.entrySet()) {  
        result.put(entry.getValue(), entry.getKey());  
    }  
    return result;  
}
```

Complexity: Time $O(n)$, Space $O(n)$

Follow-up: Use Map> when duplicate values are possible.