```
1
     public class HarryPotterBookstore {
3
         Integer DEFAULT PRICE = 8;
4
5
         Integer MAIN LEVEL DISCOUNT = 5;
6
 7
         public double buy(Order order) {
8
             if (order.getBooks().size() == 1) {
9
                 return DEFAULT PRICE * order.getBooks().firstEntry().getValue();
10
             }
11
             return getTotalPrice(order);
12
         }
13
14
         private double getTotalPrice(Order order) {
15
             MAIN LEVEL DISCOUNT = order.getBooks().size();
16
             List<Double> results = new ArrayList<>();
17
             for (int i = 0; i < MAIN_LEVEL_DISCOUNT; i++) {</pre>
18
                  LinkedHashMap<String, Integer> basket = order.getBooks().entrySet()
19
                          .stream()
20
                          .sorted(Map.Entry.comparingByValue((o1, o2) -> (-1) *
                          o1.compareTo(o2)))
21
                          .collect(Collectors.toMap(Map.Entry::getKey, Map.Entry::getValue,
22
                                   (e1, e2) -> e1, LinkedHashMap::new));
23
                 double total = 0;
                 while (!basket.isEmpty()) {
24
25
                      Integer discountLevel = calculateDiscountLevel(basket);
                      double discount = getDiscount(discountLevel);
27
                      double price = getPriceForBiggestDiscount(basket, discountLevel);
28
                      total += price - (discount * price);
29
30
                 MAIN LEVEL DISCOUNT--;
                 results.add(total);
31
32
3.3
             return Collections.min(results);
34
         }
35
36
         private double getPriceForBiggestDiscount(LinkedHashMap<String, Integer> basket,
         Integer discountLevel) {
37
             double price = 0;
38
             Iterator<Map.Entry<String, Integer>> iterator = basket.entrySet().iterator();
39
             for (int i = 0; i < discountLevel; i++) {</pre>
40
                 Map.Entry<String, Integer> basketItem = iterator.next();
                 basketItem.setValue(basketItem.getValue() - 1);
41
                 price += DEFAULT PRICE;
42
43
                  if (basketItem.getValue() == 0) {
44
                      iterator.remove();
45
46
47
             return price;
48
49
50
         private Integer calculateDiscountLevel(LinkedHashMap<String, Integer> basket) {
51
             if (MAIN LEVEL DISCOUNT <= basket.size()) {</pre>
52
                  return MAIN_LEVEL_DISCOUNT;
53
54
             return basket.size();
55
         }
56
57
         private double getDiscount(Integer discountLevel) {
58
             if (discountLevel == 2) {
59
                 return 0.05;
60
61
             if (discountLevel == 3) {
62
                 return 0.1;
63
             }
64
             if (discountLevel == 4) {
6.5
                 return 0.2;
66
             }
67
             if (discountLevel == 5) {
68
                 return 0.25;
69
             }
             return 0;
         }
```

72 } 73