

```

1  import static java.lang.System.*;
2  import java.util.ArrayList;
3  import java.util.List;
4  import java.util.Arrays;
5
6  public class Factors {
7      public static ArrayList<Integer> getListOfFactors(int number)
8      {
9          ArrayList<Integer> primeFactors = new ArrayList<Integer>();
10
11         for( int e = 2; e < number; e++ )
12             if( number % e == 0 )
13                 primeFactors.add(e);
14
15         return primeFactors;
16     }
17
18     public static void keepOnlyCompositeNumbers( List<Integer> nums ) {
19         int indexToRemove = 0;
20         boolean primeNumber = true;
21
22         while( primeNumber ) {
23             boolean breakAgain = false;
24             for( int e = 0; e < nums.size(); e++ ) {
25                 for( int i = 3; i < nums.get( e ); i++ ) {
26                     if( !( nums.get( e ) % i == 0 ) ) {
27                         indexToRemove = e;
28                         breakAgain = true;
29                         break;
30                     }
31                 }
32                 if(breakAgain)
33                     break;
34             }
35             nums.remove( indexToRemove );
36             breakAgain = false;
37             for( int e = 0; e < nums.size(); e++ ) {
38                 for( int i = 3; i < nums.get( e ); i++ ) {
39                     if( nums.get( e ) % i == 0 ) {
40                         primeNumber = false;
41                         breakAgain = true;
42                         break;
43                     }
44                 }
45                 if(breakAgain)
46                     break;
47             }
48         }
49
50         out.println( nums.toString() );
51     }
52
53     /*
54     [3]
55     []
56     [2, 5, 10, 25]
57     [2, 4, 5, 10, 20, 25, 50]
58     [2, 3, 6, 127, 254, 381]
59
60     Original List
61     [2, 6, 8, 9, 10, 12, 13, 15, 17, 24, 55, 66, 78, 77, 79]
62     Composite List
63     [6, 8, 9, 10, 12, 15, 24, 55, 66, 78, 77]
64     */

```