

```

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 maxNum = 0;
20         ArrayList<Integer> compositeNumbers = new ArrayList<Integer>();
21
22         for( int i = 0; i < nums.size() - 1; i++ )
23             maxNum = Math.max( nums.get( i ), nums.get( i + 1 ) );
24
25         for( int i = 2; i < maxNum; i++ )
26             for( int e: nums ){
27                 if( e % i != 0 ) {
28                     compositeNumbers.add( e );
29                     i++;
30                     break;
31                 }
32             }
33         out.println( compositeNumbers.toString() );
34     }
35
36     /*
37     [3]
38     []
39     [2, 5, 10, 25]
40     [2, 4, 5, 10, 20, 25, 50]
41     [2, 3, 6, 127, 254, 381]
42
43     Original List
44     [2, 6, 8, 9, 10, 12, 13, 15, 17, 24, 55, 66, 78, 77, 79]
45     Composite List
46     [6, 8, 9, 10, 12, 15, 24, 55, 66, 78, 77]
47     */

```