```java
import java.util.TreeSet;
import java.util.Scanner;

public class UserInterface {
    public static void main
        (String[] args) {
        Scanner scanner = new
            Scanner(System.in);
        NumAvg numAvg = new NumAvg
            ();

        int choice;
        do {
            System.out.println("1
                .Add number\n2.Find
                average\n3.Exit");
            System.out.println
                ("Enter your
                choice");
            choice = scanner
                .nextInt();
            scanner.nextLine(); //
                Consume newline

            switch (choice)
                case 1:
```

```
16          switch (choice) {
17              case 1:
18                  System.out
                    .println("Enter
                    the number");
19                  int num =
                    scanner.nextInt();
20                  scanner
                    .nextLine(); //
                    Consume newline
21                  numAvg.addNum
                    (num);
22                  break;
23              case 2:
24                  double average
                    = numAvg.calAvg();
25                  if (Double
                    .isNaN(average)) {
26                      System.out
                    .println("The set
                    is empty");
27                  } else {
28                      System.out
                    .println(av
29                  }
```

```
30                  break;
31              case 3:
32                  System.out
                    .println("Thank
                    you for using the
                    application");
33                  break;
34              default:
35                  System.out
                    .println("Invalid
                    choice");
36          }
37      } while (choice != 3);
38
39      scanner.close();
40  }
41  }
42
43  class NumAvg {
44      private TreeSet<Integer> numSet
            ;
45
46      public NumAvg() {
47          numSet = new TreeSe
48      }
```

```
44      private TreeSet<Integer> numSet
            ;
45
46      public NumAvg() {
47          numSet = new TreeSet<>();
48      }
49
50      public void addNum(int num) {
51          if (num % 5 != 0 && num % 6
                != 0) {
52              numSet.add(num);
53          }
54      }
55
56      public double calAvg() {
57          if (numSet.isEmpty()) {
58              return Double.NaN;
59          }
60          double sum = 0;
61          for (int num : numSet) {
62              sum += num;
63          }
64          return sum / numSet.size();
65      }
66  }
67
```

```
2.Find average
3.Exit
Enter your choice
8
Invalid choice
1.Add number
2.Find average
3.Exit
Enter your choice
4
Invalid choice
1.Add number
2.Find average
3.Exit
Enter your choice

2
The set is empty
1.Add number
2.Find average
3.Exit
Enter your choice
3
Thank you for using the application

=== Code Execution Successful ===
```