

## Problem 2\Main.java

```
1 public class Main {
2     public static void main(String[] args) {
3         System.out.print(sum(10));
4         System.out.print("\n");
5         System.out.print(sum(3));
6         System.out.print("\n");
7         System.out.print(sum(1));
8         System.out.print("\n");
9     }
10
11     public static double sum(int n)
12     // n >= 1
13     {
14         if (n == 1) // base case
15             return 1; // when n is 1, return 1
16         return 1.0 / n + sum(n - 1); // recursive case: 1/n + sum of previous terms
17     }
18
19 }
20
```