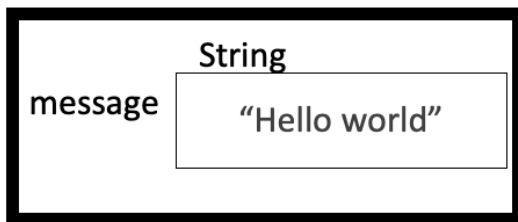Name:

(a)
```
 1 public static void printMessage(String str) {
 2
 3   System.out.println(str);
 4   printMessage(str);
 5 }
 6
 7 public static void main(String[] args) {
 8   String message = "hello world";
 9   printMessage(message);
10
11 }
```
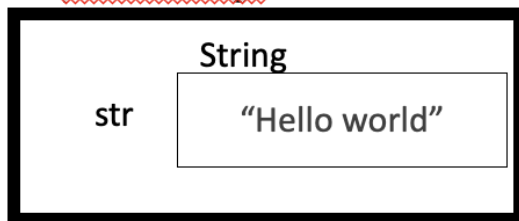
Imagine the code above is in a file called Hello.java. and we compiled the file, created a class called Hello, and then ran the program.

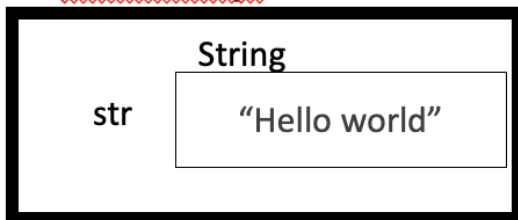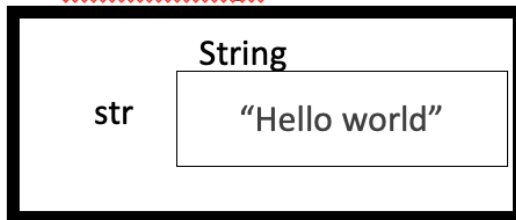Below, please draw a stack diagram. If your diagram has 5 frames, you can stop.

Figure 1: This solution has just four frames. We would continue adding `printMessage` frames indefinately since there is no return statement and we keep on calling `printMessage`.