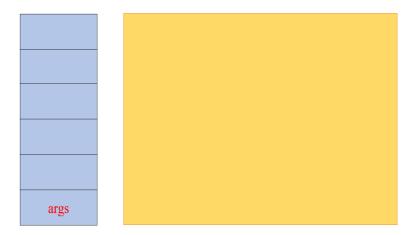
Stack-Heap Diagram

Code

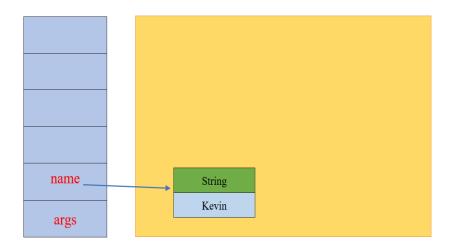
```
public class Main {
    public static void main(String[] args) {
        String name = "Kevin";
        List<String> list = new ArrayList<>();
        int times = 10;
        System.out.println(times + fill(list, name + name, times));
    public static int fill(Collection<String> collection, String str, int times){
        String shrunk = shrink(str);
        times = (times + shrunk.length()) / 2;
        for (int i = 0; i < times / 2; i++) {</pre>
            collection.add(shrunk);
        return times;
    }
    public static String shrink(String str){
        int newLength = str.length() / 2 + str.length() % 2;
        char[] chars = new char[newLength];
        for (int i = 0; i < str.length(); i+=2) {</pre>
            chars[i / 2] = str.charAt(i);
        return new String(chars);
    }
```

public class Main {
 public static void main(String[] args) {



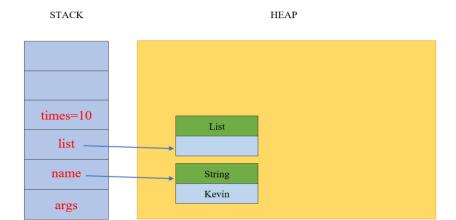
String name = "Kevin";





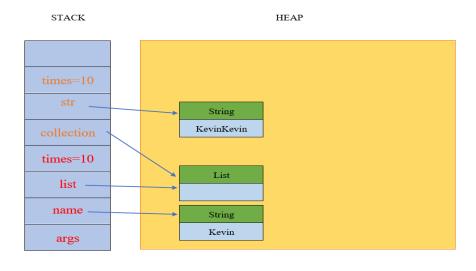
List<String> list = new ArrayList<>();

int times = 10;



System.out.println (times + fill(list, name + name, times));

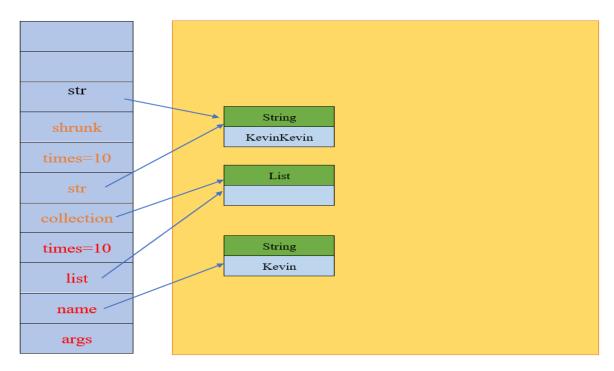
public static int fill(Collection<String> collection, String str, int times){



String shrunk = shrink(str);

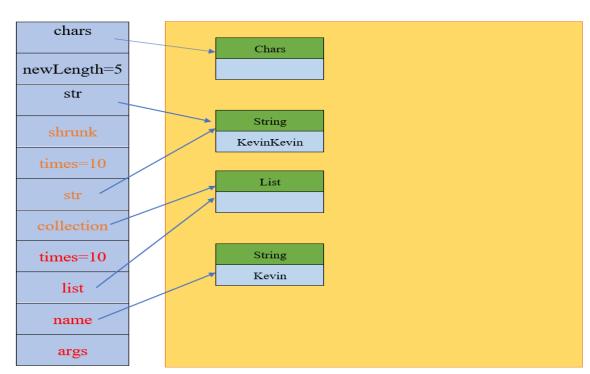
public static String shrink(String str){

STACK HEAP

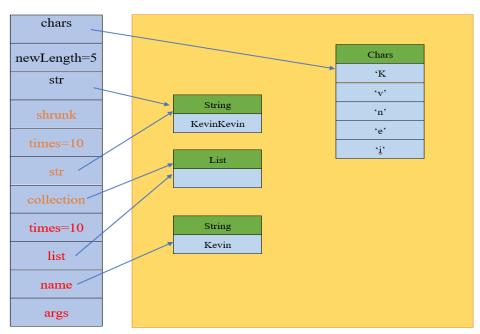


int newLength = str.length() / 2 + str.length() % 2;

char[] chars = new char[newLength];

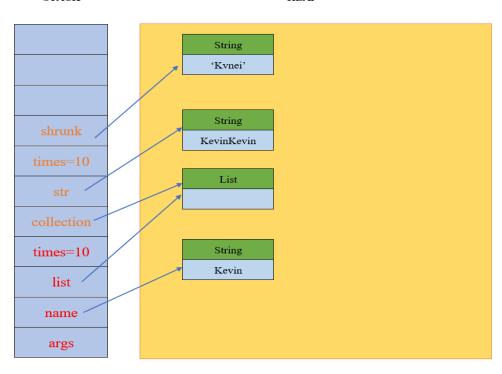


STACK HEAP



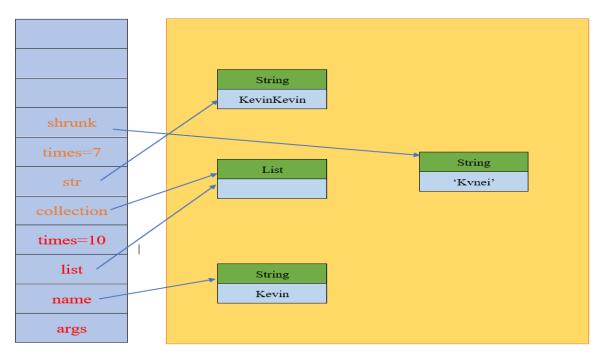
return new String(chars); }

String shrunk = shrink(str);



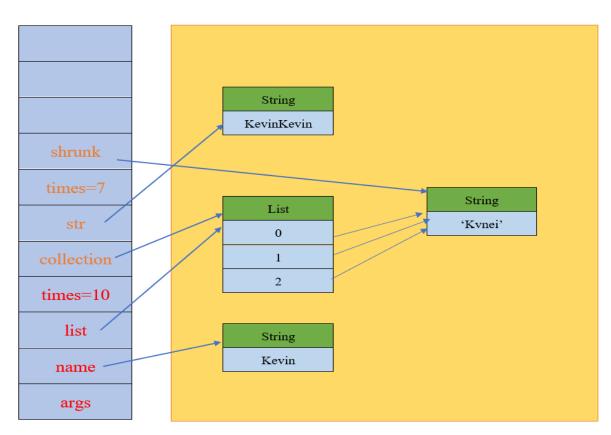
times = (times + shrunk.length()) / 2;

STACK HEAP



for (int i = 0; i < times / 2; i++) {

collection.add(shrunk);



return times;

```
System.out.println (times + fill(list, name + name, times));
}
```

Output: 17