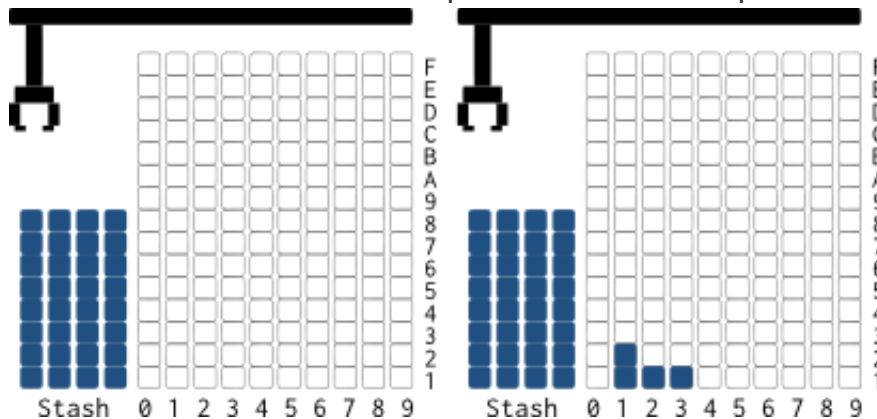




Robot - 65 points (Coding)



We have a robot that can pick up blocks from a stash, move them horizontally, and lower them in place. There are 10 positions available to lower blocks, numbered from 0 to 9. Each position can hold up to 15 blocks.



The robot understands the commands 'P', 'M' and 'L':

P: **Pickup** from the stash and move to position 0

M: **Move** to the next position

L: **Lower** the block

The robot is safe to operate and very forgiving:

- There are always blocks in the stash (**Pickup** will always get a block).
- If the robot already holds a block, **Pickup** will reset the robot to position 0.
- The robot will not go beyond position 9. Trying to **Move** it further does nothing.
- **Lowering** a block on a pile of 15 blocks does nothing (and the robot will keep any block it holds).
- **Lowering** without a block does nothing.
- The robot ignores any command that is not 'P', 'M' or 'L'.

Implement a function that takes a **String** of commands for the robot. The function should output a **String** representing the number of blocks (in hexadecimal) at each position after running all the commands.

For example, given the String **"PMLPMMMLPMLPMML"**, the function should return **"0211000000"** (see the image above). And **"PLPLPLPLPLPLPLPLPLPL"** should return **"A000000000"**.

YOUR ANSWER



```
1 ▼ import java.io.*;
2   import java.util.*;
3   import java.text.*;
4   import java.math.*;
5   import java.util.regex.*;
6
7   public class Solution {
8
9 ▼  /*
10    * Complete the function below.
11    */
12
13 ▼    static String compute(String instructions) {
14
15
16    }
17
18
```

```

19  public static void main(String[] args) throws
IOException{
20      Scanner in = new Scanner(System.in);
21      final String fileName =
System.getenv("OUTPUT_PATH");
22      BufferedWriter bw = new BufferedWriter(new
FileWriter(fileName));
23      String res;
24      String _instructions;
25  try {
26      _instructions = in.nextLine();
27  } catch (Exception e) {
28      _instructions = null;
29  }
30
31      res = compute(_instructions);
32      bw.write(res);
33      bw.newLine();
34
35      bw.close();
36  }
37  }


```

Line: 12 Col: 1

☐ Test against custom input

Run Code

Submit code & Continue

 [Download sample testcases](#) *The input/output files have Unix line endings. Do not use Notepad to edit them on windows.*