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05.06 Desk Check: MysteryPrintWriter.java

Complete a desk check of the MysteryPrintWriter class in the space provided below.

```
< 1>   import java.io.IOException;
< 2>   import java.io.PrintWriter;
< 3>   import java.io.File;
< 4>   class MysteryPrintWriter
< 5>   {
< 6>      public static void main (String [ ] args) throws IOException <
<7>       {
< 8>
< 9>         PrintWriter outFile = new PrintWriter(new File("bah.txt"));
<10>
<11>          for (int loop = 1; loop <= 10; loop++)
<12>          {
<13>             outFile.println(loop + " " + (char)(83)+(char)(104)+(char)(101)+(char)(101)+(char)(112));
<14>          }//end of for loop
<15>          outFile.close ( );   //close the file when finished
<16>
<17>      }//end of main method
<18>   }//end of class
```

Lines

< 1> Imports the IOException class from the java.io library to handle errors reading files.

< 2> Imports the PrintWriter class from the java.io library which allows the outFile object to be created in line<9>.

< 3> Imports the File class from the java.io library, which allows a File object to be created in line<9>(within the parentheses).

< 4> Declares a class named MysteryPrintWriter.

< 5> Opening curly brace marking the beginning of the class(matches up with line<18>).

< 6> The main () method where program execution begins. Throws IOException has been added to throw an exception on line<9>,"new PrintWriter(new File("bah.txt"));".

< 7> Opening curly brace to start the main() method(matches up with line<17>).

< 8> White space to improve readability.

< 9>Creates a PrintWriter object called outFile, which represents the text file (bah.txt) to be written by the for loop.

<10> White space to improve program readability.

<11> For loop condition which counts from 1 to 10. Which the condition is no longer true, execution jumps to line<15>.

<12> Curly brace marking the beginning of the for loop (matches up with line <14>).

<13> The println() method of the PrintWriter class prints the String literal too the file represented by the outFile object. In this case, the value of the loop variable, the space within the quotation marks and the ASCII characters are concatenated to form the String literal.

<14> Closing curly brace marking the end of the for loop (matches up with line <12>).

<15> The close() method of the PrintWriter class closes the output stream once the writing to the file is complete.

<16> White space to improve readability.

<17> Closing curly brace marking the end of the main() method (matches up with line <7>).

<18> Closing curly brace marking the end of the class (matches up with line <5>).