



## Module 10 Mastery Check

1. Why does Java define both byte and character streams?
2. Even though console input and output is text-based, why does Java still use byte streams for this purpose?
3. Show how to open a file for reading bytes.
4. Show how to open a file for reading characters.
5. Show how to open a file for random access I/O.
6. How can you convert a numeric string such as “123.23” into its binary equivalent?
7. Write a program that copies a text file. In the process, have it convert all spaces into hyphens. Use the byte stream file classes.
8. Rewrite the program described in question 7 so that it uses the character stream classes.
9. What type of stream is **System.in**?
10. What does the **read()** method of **InputStream** return when the end of the stream is reached?
11. What type of stream is used to read binary data?
12. **Reader** and **Writer** are at the top of the \_\_\_\_\_ class hierarchies.