Sam Sanft

Ch 13

1. What is the ASCII code for ‘A’?

65

1. What is the ASCII code for ‘Z’?

90

1. What is the ASCII code for ‘a’?

97

1. What is the ASCII code for ‘z’?

122

1. How many letters are in the English alphabet?

26

1. What is the ASCII code for the character ‘0’ (this is the number 0 and not the letter O)?

48

1. What is the ASCII code for the character ‘9’?

57

8. What does the following code do?

char c;

for (int j = 97; j <= 122; j++) {

c = (char)(j –32);

System.out.print(c);

}

It prints all the uppercase numbers.

9. What does the following code do?

String s = “Alfred E. Neuman”;

char ch;

for (int x = 0; x < s.length( ); x++) {

ch = s.charAt(x);

if ( (ch <= 90) && (ch>=65) )

ch = (char)(ch + 32);

System.out.print(ch);

}

Prints a lower case version of the string

10. Write code that will convert *char a* into a *String*.

String s = “” + a;

s = Character.toString(a);

11. Write code that will convert *String p* into a character. (*p* consists of just one letter.)

char a = s.charAt(0);

12. Is this legal?

char ch = ‘V’;

String sd = ch;

no

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13. Is this legal?

char ch = ‘V’;

char x = (char)(ch + 56);

yes

14. Is this legal?

char aa = “X”;

no

15. char k = ‘B’;

System.out.println(k + 3); //What’s printed?

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16. char k = ‘B’;

System.out.println( (char)(k + 3) ); //What’s printed?

E

17. Write code that will insure that an uppercase version of *char boy* is stored in *char cv*.

char cv;

if ((boy >= 97) && (boy <= 122))

cv = (char) (boy - 32);

else

cv = boy;

18. Write code that will insure that a lowercase version of *char boy* is stored in *char cv*.

char cv;

if ((boy >= 65) && (boy <= 90))

cv = (char) (boy + 32);

else

cv = boy;

19. If you have a character called *bv*, what could you do to determine if it’s a digit?

Test to see if its between 48 and 57.

20. If you have a character called *bv*, what could you do to determine if it’s a letter?

Test to see if its between 65 and 90 or 97 and 122.

21. If you have a character called *bv*, what could you do to determine if it’s an uppercase

character?

Test to see if its between 65 and 90.

22. If you have a character called *bv*, what could you do to determine if it’s either a letter or a

digit?

Test to see if its between 48 and 57, 65 and 90, or 97 and 122.

23. If you have a character called *bv*, what could you do to determine if it’s a lowercase

character?

Test to see if its between 97 and 122.

24. Describe what the following code does.

for(int j = 0; j <= 127; j++)

{

char ch = (char)j;

if (Character.isWhitespace(ch) )

System.out.println(j);

}

It prints out the integer values for all whitespace characters.