CH10_006

ANSWER

USING THE TORQUE STANDARD LIBRARY

1 Conversion

Finished Code:

```
ConsoleFunction(ch10_exer_006, const char *, 3, 3,
                "ch10_exer_006( string1 , string2 )")

{
   char *newString = Con::getReturnBuffer(256);
   const char *string1 = argv[1];
   const char *string2 = argv[2];

   // Concatenate the strings
   S32   len1 = dStrlen(string1);
   S32   len2 = dStrlen(string2);

   if( (len1 + len2) > 255 ) return NULL;

   dMemcpy(newString, string1, len1);

   dMemcpy(newString + len1 , string2, len2);

   newString[len1+len2] = '\0';

   // Convert all characters to upper case
   for(int i = 0; i<256;i++)
   {
      newString[i] = dToupper(newString[i]);
   }

   // do rudimentary leetspeak conversion
   for(int i = 0; i<256;i++)
   {
```

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```
        switch( newString[i] ) {
        case 'O':
           newString[i] = '0';
           break;
        case 'D':
           newString[i] = '0';
           break;

        case 'I':
           newString[i] = '1';
           break;
        case 'T':
           newString[i] = '1';
           break;

        case 'E':
           newString[i] = '3';
           break;
        case 'B':
           newString[i] = '3';
           break;

        case 'Z':
           newString[i] = '2';
           break;
        case 'R':
           newString[i] = '2';
           break;

        case 'G':
           newString[i] = '6';
           break;

        case 'L':
           newString[i] = '1';
           break;
        }
     }
   return newString;
 }
```

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Answers:

1. Yes.

2. Yes. You could replace the loop code with the following single statement.

```
// Convert all characters to upper case
//for(int i = 0; i<256;i++)
//{
//   newString[i] = dToupper(newString[i]);
//}
dStrupr( newString );
```