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*
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```
#include <LPC21xx.H>
#define NULL 0

void UIntToHexStr (unsigned int uiValue, char pcStr[])
{
    unsigned char ucNibbleCounter;
    unsigned char ucCurrentNibble;

    pcStr[0] = '0';
    pcStr[1] = 'x';
    for( ucNibbleCounter=0; ucNibbleCounter<4; ucNibbleCounter++)
    {
        ucCurrentNibble = (uiValue >> (4*ucNibbleCounter)) & 0x000F;
        if ( ucCurrentNibble >= 10 )
        {
            pcStr[5 - ucNibbleCounter] = ucCurrentNibble + 'A' - 10;
        }
        else
        {
            pcStr[5 - ucNibbleCounter] = ucCurrentNibble + '0';
        }
    }
    pcStr[6] = NULL;
}
```



```
enum Result {ERROR, OK} eResult;
enum Result eHexStringToUInt(char pcStr[], unsigned int *puiValue)
  unsigned char ucCharCounter;
  unsigned char ucCurrentCharacter;
  if ( (pcStr[0] != '0') || (pcStr[1] != 'x') || (pcStr[2] == NULL) || (pcStr[6] != NULL) )
    return ERROR;
  for ( ucCharCounter = 2; ucCharCounter <= 6 ; ucCharCounter++ )</pre>
    ucCurrentCharacter = pcStr[ucCharCounter];
    if ( ucCurrentCharacter == NULL )
       return OK;
    *puiValue = (*puiValue << 4);
    if ( ucCurrentCharacter >= 'A' )
       *puiValue = *puiValue + (ucCurrentCharacter - 'A' + 10);
    else
       *puiValue = *puiValue + (ucCurrentCharacter - '0');
void AppendUIntToString (unsigned int uiValue, char pcDestinationStr[])
  unsigned char ucEndPointer;
  for ( ucEndPointer=0; pcDestinationStr[ucEndPointer] != NULL; ucEndPointer++ ) {}
  UIntToHexStr(uiValue, pcDestinationStr+ucEndPointer);
```