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Łańcuchy znakowe - konwersje
        funkcjonalności:
                   - Zmiana liczby na format hexadecymalny
                   - Zmiana ciągu znaków w fromacie hexadecymalny na liczbę
                   - Dołączanie jednego liczby hexadecymalnej do łańcucha znakowego**
//
void UIntToHexStr (unsigned int uiValue, char pcStr[])
  unsigned char ucNibbleCounter;
  unsigned char ucCurrentNibble;
  pcStr[0] = '0';
  pcStr[1] = 'x';
  pcStr[6] = '\0';
  for(ucNibbleCounter = 0; 4 > ucNibbleCounter; ucNibbleCounter++)
    ucCurrentNibble = ((uiValue >> ((ucNibbleCounter) * 4)) & 0xF);
    if(10 > ucCurrentNibble)
        pcStr[5 - ucNibbleCounter] = ucCurrentNibble + '0';
    else
      pcStr[5 - ucNibbleCounter] = ucCurrentNibble - 10 + 'A';
```



```
enum Result { OK, ERROR };
enum Result eHexStringToUInt(char pcStr[], unsigned int *puiValue)
  unsigned char ucCharacterCounter;
  char cCurrentCharacter:
  *puiValue = 0;
  if(('0' == pcStr[0]) \&\& ('x' == pcStr[1]) \&\& ('\0' != pcStr[2]))
    for(ucCharacterCounter = 2; 6 >= ucCharacterCounter; ucCharacterCounter++)
       cCurrentCharacter = pcStr[ucCharacterCounter];
       if(('A' <= cCurrentCharacter) && ('F' >= cCurrentCharacter))
         *puiValue = (*puiValue << 4) + (cCurrentCharacter - 'A' + 10);
       else if(('0' <= cCurrentCharacter) && ('9' >= cCurrentCharacter))
         *puiValue = (*puiValue << 4) + (cCurrentCharacter - '0');
       else if('\0' == cCurrentCharacter)
         return OK;
       else
         return ERROR;
    return ERROR;
  else
    return ERROR;
void AppendUIntToString (unsigned int uiValue, char pcDestinationStr[])
  unsigned char ucCharacterCounter;
  for(ucCharacterCounter = 0; '\0' != pcDestinationStr[ucCharacterCounter]; ucCharacterCounter++) {}
  UIntToHexStr(uiValue, pcDestinationStr + ucCharacterCounter);
```