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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 ucHexChar;
  pcStr[10] = ' \setminus 0';
  pcStr[1] = 'x';
  pcStr[0] = '0';
  for(ucHexChar = 4; 0 < ucHexChar; ucHexChar--)</pre>
    pcStr[6 - ucHexChar] = ((uiValue & (0xF << ((ucHexChar - 1) * 4))) >> ((ucHexChar - 1) * 4));
    if(9 >= pcStr[6 - ucHexChar])
        pcStr[6 - ucHexChar] = pcStr[6 - ucHexChar] + 48;
    else
       pcStr[6 - ucHexChar] = pcStr[6 - ucHexChar] + 55;
```



```
enum Result { OK, ERROR };
enum Result eHexStringToUInt(char pcStr[],unsigned int *puiValue)
  unsigned char ucCharacterCounter;
  if(('0' == pcStr[0]) \&\& ('x' == pcStr[1]) \&\& ('\0' != pcStr[2]))
    for(ucCharacterCounter = 2; pcStr[ucCharacterCounter]; ucCharacterCounter++)
       if(('A' <= pcStr[ucCharacterCounter]) && ('F' >= pcStr[ucCharacterCounter]))
         *puiValue = (*puiValue * 16) + (pcStr[ucCharacterCounter] - 55);
       else if(('0' <= pcStr[ucCharacterCounter]) && ('9' >= pcStr[ucCharacterCounter]))
         *puiValue = (*puiValue * 16) + (pcStr[ucCharacterCounter] - 48);
       else
         return ERROR;
    if(ucCharacterCounter > 6)
       return ERROR;
    else
       return OK;
  else
    return ERROR;
void AppendUIntToString (unsigned int uiValue, char pcDestinationStr[])
  unsigned char ucCharacterCounter;
  for(ucCharacterCounter = 0; '\0' != pcDestinationStr[ucCharacterCounter]; ucCharacterCounter++) {}
  UIntToHexStr(uiValue, pcDestinationStr+ucCharacterCounter);
```