Block + sHash : string + sPrevHash : string - _nIndex : int - _nNonce : int - _sData : string - _tTime : time_t - _verbose : bool + Block (nIndex : int, sDataIn : const string&, _verboseIn : bool) + MineBlock (nDifficulty: int) + operator << (os : ostream&, b : Block&) : ostream& + operator != (b : Block&) : bool - _CalculateHash (): string SHA_256 # sha256_k[]: unsigned char # sha_256_BLOCK_SIZE: const usigned int + DIGEST_SIZE : const unsigned int # m_tot_len : unsigned int # m_len : unsigned int # m_block : unsigned char # m_h : unsigned char + init () + update (message : const unsigned char *, len :unsigned int) + final (digest : unsigned char *) + trasform (message : const unsigned char *, block_nb : unsigned int)

Blockchain

- _vChain : vector<Block>

- _nDiffiulty : int

- _verbose : bool

+ Blockchain (_verboseIn : bool)

+ AddBlock (bNew : Block)

+ _GetLastBlock (): Block

+ _isValid (_toCheck : Block) : bool

+ operator << (os : ostream&, b : Blockchain&) : ostream&

+ operator [] (i : int) : Block