

Difficulty (Enum)

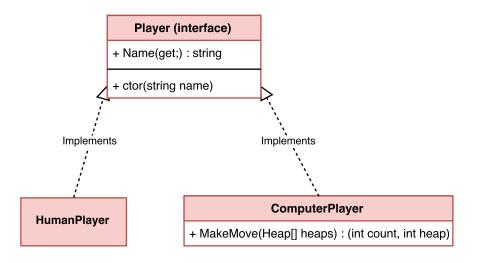
+ EASY : 0 + MEDIUM : 1 + HARD : 2

Неар

+ StonesLeft(get; private set;) : int

+ ctor(int stonesCount)

+ RemoveStones(int count) : bool



Nim

+ Heaps(get; private set;) : Heap[] + Players(get; private set;) : Player[]

+ CurrentPlayer(get;) : Player - CurrentPlayerIndex : int

+ ctor(Difficulty difficulty, string playerName)

+ ctor(Difficulty difficulty, string firstPlayerName, string secondPlayerNam

+ RemoveStones(int count, int heap) : bool

+ ComputerMakeMove(): void

+ Winner() : Player + IsGameOver() : bool - SwitchTurn() : void

NimSetupView

Label Player1Name
Label Player2Name
RadioButton OpponentChoose
(RadioButtons for computer and human)
RadioButton DifficultyChoose
(RadioButtons for 1,2,3)
Textbox Player1NameText
TextBox Player2NameText
Button Submit

bool CheckValid()

NimInstructionsDialog

ListBox ShowInstructions Button Close

+ method(type): type

NimGamePage

- game : Nim

- playerTurnLabel : Label heapInput : TextBox
quantityInput : TextBox
submitButton : Button
heapsPanel : StackPanel

+ ctor(Nim game)
- InitializeHeaps() : void

- SubmitButton_Pressed(object sender, RoutedEventArgs e) : void

- ValidateInput() : bool

- RemoveStones(int count, int heap) : bool - UpdatePlayerTurnLabel() : void

HeapUserControl

+ HeapRef(get;) : Heap - HeapNumberLabel : Label - StonesPanel : StackPanel

- MainPanel : StackPanel

+ ctor (Heap heapRef, int heapNum)

+ Render(): void