abstract class

- gamePiece
 - Owner (no owner included)

enums

- settlementState
 - notBuilt
 - settlement
 - City
- RoadState
 - notBuilt
 - Built
- resource
 - wood
 - brick
 - sheep
 - stone
 - wheat
 - Gold
- Action
 - PlaceKnight
 - BuildSettlement
 - BuildCity
 - AssignCastle
 - UseKnight
 - BuildRoad
 - TradeForGold
 - ReRoll

Classes

- Coordinate
 - x:Int
 - y: Int
- Prices
 - hashMap<list(resource)><gamePiece> where resource[] is costs
- CatanDiceGame (singleton)
 - (default provided functionality)
 - newTurn(): Void
 - StartGame(): Void
 - GameOver(): Void
- Settlement (extends gamePiece)
 - fields

- state : settlementState
- isCityable
- isCity
- isBuilt
- location : Coordinate[]

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- Road (extends gamePiece)
 - location : Coordinate[]
- Castle (extends gamePiece)
- Longest road (extends gamePiece)
- Largest Army (extends gamePiece)
- Board (singleton)
 - Pieces : HashMap <Tile, GamePiece>[][]
 - InstatiateBoard(): void
 - getTile(): Tile
 - getGamePiece(): GamePiece
- Player
 - Name: str
 - resources: resource[]
 - Action takeTurn(Board) (interfaces with gui or something to find turn)
- Al (extends Player)
 - takeTurn : Override Method
- ExampleGames (singleton)
- Tile (extends gamePiece)
 - location : Coordinate[]
 - Used (boolean)
 - type : ResourceType
 - Location length is 6
- Desert (extends tile)
 - @overrideVariable
 - Owner : Player[]