Main

Runs Everything

# Libraries/Classes calling on Main

None

# Internal Library/Class dependencies

Validate/Read

Flows Library

AlternativeSummary Class

TotalRequiredFlows Class

TotalOptionalFlows Class

SensitivitySummary Class

UncertaintySummary Class

cashFlows Library

Analysis Class

Alternative Class

BCN Class

Sensitivity Class

Scenario Class

# External Library Dependencies

None

# Functions

Main() – runs everything

# Pseudo Code

Optional inputs are in italics

Begin Pseudocode

Import Validate/Read

Import Flows Library

Import AlternativeSummary Class

Import TotalRequiredFlows Class

Import TotalOptionalFLows Class

Import SensitivitySummary Class

Import UncertaintySummary Class

Import cashFlows Library

Import Analysis Class

Import Alternative Class

Import BCN Class

Import Sensitivity Class

Import Scenario Class

main()

JSON file passes through authentication and initiates code

Call to validate/read to validate file and generate user defined objects

// Generate BCN level Flows (could be separated out as a separate method/library if desired)

For bcn in BCN object

bcnNonDiscFlow, bcnDiscFlow, quantList = cashFlows.bcnFlow(bcnObject,studyPeriod,timestepCount)

initialize bcnFlow object variables via

bcnStorage(bcnName,altID,type,subtype,tag,bcnNonDiscFlow,bcnDiscFlow, quantList, quantUnt,quantList)

// Generate Total Cash Flows usng totalFlows from cashFlows library

For each Analysis.altID

cashFlows.totalFlows(bcnObjectList,altID)

// Calculate measures

Find baseline Alternative

calculate measures for baseline (those relative to baseline can be left blank, the write to file section will deal with the specifics of blank output)

Store results in alternativeSummary object

For all non-baseline alternatives

Calculate measures

Store results in alternativeSummary object

// Write to file

End main()

End Pseudocode