Blue Mitch, Red Pat

* Functions
  + Calculate1dEnergy
  + Calculate1dEnergynextnearestNeighbor
  + Calculate2dEnergy
  + Calculate2dEnergynextnearestNeighbor
  + Generate1dSpinArray
  + Generate2dSpinArray
  + CompareEnergy
  + CalculateandCompareMetropolisRelativeProbability
  + Calculateaveragedomainsize
  + ComputeInternalEnergy
  + ComputeMagnetization
  + ComputeAnalyticInternalEnergy
  + ComputeAnalyticMagnetization
  + CalculateEnergyFluxuation
  + CalculateSPecificHeat
  + GenerateWLSDensityofStates
  + CalculateandCompareWLSRelativeProbability
  + GenerateWLSHistogram
  + NormalizeWLS
  + GenerateMetropolisSystem
  + GenerateWLSSystem
* Test Cases
  + Metropolis
  + WLS
    - Nearest Neighbors
    - Next Nearest Neighbors
      * Print 1d array
      * Print 2d array
      * Plot domain size vs Temp
      * Plot U vs kbT
      * Plot M vs KbT
      * Average Energy
      * average energy vs kbT
      * C vs kbT
    - Log Thing
* Formulas
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