```
SpatialHashing
        - m hashMap

    m_cellSize

    m mapSize

    m firstLargePrimeNumber

    m_secondLargePrimeNumber

    m thirdLargePrimeNumber

    m initialNeighbourListSize

        + SpatialHashing()
       + ~SpatialHashing()
        + initialiseSpatialHashing()
        + refreshHashmap()
        + clearHashmap()
        + searchFluidParticleNeighbours()
        + setCellSize()
        - modulus()
       getNextPrimeNumber()

    discretizingVector()

        hashPosition()

    getNeighbouringCells()

        - inListCheck()
                          m_spatialHashing
                    SPHSolver

    m fluidParticleList

    m fluidNameList

    m_smoothingLength

    m spatialHashing

- m weightPoly
- m_weightPolyGradient

    m weightPolyLaplacian

    m_weightPressureGradient

    m_weightViscosityLaplacian

    m iteration

    m visualizationType

    m drawFluidParticles

+ SPHSolver()
+ ~SPHSolver()
+ updateFluid()
+ getFluidParticlePositionList()
+ getFluidNameList()
+ getVisualizationType()
+ getFluidParticleList()
+ getDrawFluidParticles()

    - calculateInterfaceTensionGradientComponent()
```

- calculateInterfaceTensionLaplacianComponent()

- calculateSurfaceTennsionGradientComponent()- calculateSurfaceTensionLaplacianComponent()

- calculatePressureForceComponent()- calculateViscosityForceComponent()

- KernelPoly()

KernelPolyGradient()
 KernelPolyLaplacian()
 KernelPressureGradient()
 KernelViscosityLaplacian()

normalizeVector()getFluidIdFromName()