13. HW 4 Vortex Patterns (D How do I produce vortex Make sure that the patterns in my fluid positive and negative vorticity strengths add up to +1 and -1, Note K is the vorticity strength variable respectively For example, if you have 100 particles with positive vorticity strength and 50 particles with negative vorticity strength, you should set each positive - strength particle to have  $K = \frac{1}{100}$ and each negative-strength partice to have  $K = -\frac{1}{50}$ . Troubleshooting tips My simulation is exploding what should a (i) Try initializing the velocity field to zero at every time step before you update it. Try decreasing the time step. (1)Verify that the vector  $\phi_p - \phi_q$  is properly rotated by 90°. (11)(3) (i) Try increasing the How do I make my simulation look more realistic and visually compelling? number of particles to make the particle distribution denser. (11) Assign different colors to the positive and negative vorticity strength particles