ALGORITHM FOR DETERMINING ORIENTATION Suppose = Acc X 1s X- component of acceleration Acc Y is Y-component of acceleration Ace Z 18 Z-comparent of acceleration Firstly determine if the magnitude of Acc Z is k-times (or more) FOR Z greater than the magnitudes of Acc X and Acc Y. If this is the case the sign of Ace Z determines the orientation You need to C! IF Ace Z > O ELSE Deal with Flat Deal with Base-up ENDIF ENDIF This is for Z Take a similar approach for the X and Y values. (For the other 4 grientations)