worst care complexity: 0 (n nguarce) Suppose, an array is in accending order, and you want to nort it in descending order. In the case, world case complexity occurs. Each element has to be compared with each of the other element. So for every n the element (n-1) number of comparerson are made. The total number of comparisons = n (n-1)~ n(2) Best case complexity: Oln) when the array in already sorted the outer loop rum for n number of times whereas the inner loop does not run at all. So there are only n number of comparisons. Thus, completely is linear. Average care complexity: 0 (n2) It occurs when the elements of an array are in Jumbled order (neither ascending nor descending)

Selection Sort Selecting the lowest element requires Scanning all n elements (n-1) compositions and then swapping it into the first position. boughou. Finding the next lowerst element requires scanning the rain remaining (n-1) elements and so on = (n-1) + (n-2) + - - + 2 + 1 = n(n-1)/2 $= 0 (n^2) comparinon$ Brot conse: 0 (n)12 worth care: 0 (n) 2 Average care: 0 (n)12