(i) number of comparison; first pass would make n-1 comparisons Second: n-2 third: n-3 last: Gauss's formula  $(n-1)+(n-2)+\cdots+2+1=\frac{[(n-1)+1](n-1)}{2}=\frac{n(n-1)}{2}$ (ii) average number of Swaps best + worst =  $0+\frac{nun-1}{2}$ n (n-1) 4. # comparisons # Swaps 40 40 30 30 マヘ ひく 10 10 8 10 > input 10 > input They do match the shape of the curve for n2. which is the average complexity Ocn2)