Insertion Sort

Analogy: 17 students standing row Analogy: 27 sorting a hand of cards Insorbon Sort (A, n)

Insorbon Sont T(n) = (n + (2(n-1) + (4(n-1))+(5) +(6) +(6) +(7) $= cin + c_2 con - 1) + c_4 (n-1)$ +(5(n-1)+(6(2)+(7) + (g (n-+)

 $\frac{n}{j-2} = \frac{n(n+1)}{2} - \frac{1}{j-2} = \frac{n(n+1)}{2} - \frac{1}{j-2} = \frac{n(n+1)}{2} = \frac{n(n+1)}{2}$ $= C_{1}n + (c_{2}t(c_{1}t(c_{5}t(c_{3}))(n-1))$ $= 0 + (c_{2}t(c_{1}t(c_{5}t(c_{3}))(n-1))$ $= -(n+(c_{2}t(c_{1}t(c_{5}t(c_{3}))(n-1))$ $= -(n+(c_{2}t(c_{1}t(c_{5}t(c_{3}))(n-1))$ = (n(n-1)) + (-1(n(n-1)) + (-1(n(n-1))) + (-1(n

= (5+8+5) (2) + (- - -Infortion Sout

Hestmont Poyson mathanalysa? of solodion Sort,